

MK-2000 PRO SERIES

BRICK SAW OWNER'S MANUAL & OPERATING INSTRUCTIONS



CAUTION:

Read all safety and operating instructions before using this equipment

Enter the Serial Number of your new saw in the space below. The Serial Number is located on the left side of the blade guard.

SERIAL NUMBER:

NOTE:

For your (1) one year warranty to be effective, complete the warranty card (including the Serial Number and mail it in as soon as possible.

INTRODUCTION

We at MK Diamond want to congratulate you on selecting the MK-2000 PRO Brick Saw. We are certain that you will be pleased with your purchase. MK Diamond takes pride in producing the finest products in the industry.

Operated correctly, your MK-2000 PRO should provide you with years of quality service. In order to help you, we have included this manual. This owners manual contains information necessary to operate and maintain your MK-2000 PRO safely and correctly. Please take a few minutes to familiarize yourself with the MK-2000 PRO by reading and reviewing this manual.

If you should have questions concerning your MK-2000 PRO, please feel free to call our friendly customer service department at: 800 421-5830

Regards,

MK Diamond

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SAFETY

Read and follow all safety, operating and maintenance instructions. Failure to read and follow these instructions could result in injury or death to you or others. Failure to read and follow these instructions could also result in damage and/or reduced equipment life.

SAFETY MESSAGES:

Safety messages inform the user about potential hazards that could lead to injury, death and/or equipment damage. Each safety message will be preceded by one of the following (3) three words that identify the severity of the message.

⚠ DANGER

Not following instructions **WILL** lead to **DEATH** or **SERIOUS INJURY**

⚠ WARNING

Not following instructions **COULD** lead to **DEATH** or **SERIOUS INJURY**

⚠ CAUTION

Not following instructions **CAN** lead to injury

DAMAGE PREVENTION AND INFORMATION MESSAGES:

A Damage Prevention Message is to inform the user of important information and/or instructions that could lead to equipment or other property damage if not followed. Information Messages convey information that pertains to the equipment being used. Each message will be preceded by the word NOTE, as in the example below.

NOTE:

Equipment and/or property damage may result if these instructions are not followed.

GENERAL SAFETY PRECAUTIONS AND HAZARD SYMBOLS:

In order to prevent injury, the following safety precautions and symbols should be followed at all times!

Safety Precautions:

KEEP GUARDS IN PLACE.



In order to prevent injury, keep guards in place and in working order at all times.

REMOVE ADJUSTING KEYS AND WRENCHES.

Form a habit of checking to see that keys and adjusting wrenches are removed from the power tool before it is turned on.

KEEP WORK AREA CLEAN.

Cluttered work areas and benches invite accidents.

DO NOT USE IN DANGEROUS ENVIRONMENTS.

Do not use power tools in damp or wet locations nor expose them to rain. Always keep the work area well lighted.

KEEP CHILDREN AWAY.

All visitors and children should be kept a safe distance from work area.

MAKE THE WORKSHOP KID PROOF.

Make the workshops kid proof by using padlocks, master switches or by removing starter keys.

DO NOT FORCE THE TOOL.

A power tool will do a job better and safer operating at the rate for which it was designed.

USE THE RIGHT TOOL.

Do not force a tool or an attachment, to do a job that it was not designed to do.

SAFETY

USE THE PROPER EXTENSION CORD.

If using an extension cord make sure it is in good condition first. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage that will result in a loss of power and overheating. TABLE 1, Page shows the correct AWG size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

WEAR PROPER APPAREL.

Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry that may be caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

ALWAYS USE SAFETY GLASSES.



Safety glasses should always be worn when working around power tools. In addition, a face, dust mask or respirator should be worn if a cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses and may not prevent eye injury-they are NOT safety glasses.

SECURE WORK.

Clamps or a vise should be used to hold work whenever practical. Keeping your hands free to operate a power tool is safer.

DO NOT OVERREACH.

Keep proper footing and balance at all times by not overreaching.

MAINTAIN TOOLS WITH CARE.

Keep tools clean for the best and safest performance. Always follow maintenance instructions for lubricating, and when changing accessories.

DISCONNECT TOOLS.

Power tools should always be disconnected before servicing or when changing accessories, such as blades, bits, cutters, and the like.

REDUCE THE RISK OF UNINTENTIONAL STARTING.



Make sure the ON/Off switch; is in the OFF position before plugging in a power tool.

USE RECOMMENDED ACCESSORIES.

Consult the owner's manual for recommended accessories. Using improper accessories may increase the risk of personal or by-stander injury.

NEVER STAND ON THE TOOL.

Serious injury could occur if a power tool is tipped, or if a cutting tool is unintentionally contacted.

CHECK FOR DAMAGED PARTS.

Before using a power tool, check for damaged parts. A guard or any other part that is damaged should be carefully checked to determine it would operate properly and perform its intended function. Always check moving parts for proper alignment or binding. Check for broken parts and mountings and all other conditions that may affect the operation of the power tool. A guard, or any damaged part, should be properly repaired or replaced.

DIRECTION OF FEED.

Always feed work into a blade or cutter against the direction of rotation. A blade or cutter should always be installed such that rotation is in the direction of the arrow imprinted on the side of the blade or cutter.

NEVER LEAVE A TOOL RUNNING UNATTENDED – TURN POWER OFF.

Do not leave a tool until it comes to a complete stop. Always turn a power tool OFF when leaving the work area, or, when a cut is finished.

SAFETY

Hazard Symbols:

ELECTRICAL SHOCK!



Never touch electrical wires or components while the motor is running. Exposed, frayed or worn electrical motor wiring can be sources of electrical shock that could cause severe injury or burns.

ACCIDENTAL STARTS!



Before plugging the equipment into an electrical outlet, be sure the ON/OFF switch, is in the OFF position to prevent accidental starting. Unplug the power tool before performing any service operation.

ROTATING OR MOVING PARTS!



Keep hands, feet, hair, and clothing away from all moving parts to prevent injury. Never operate a power tool with covers, shrouds, or guards removed.

⚠WARNING

Sawing and drilling generates dust. Excessive airborne particles may cause irritation to eyes, skin and respiratory tract. To avoid breathing impairment, always employ dust controls and protection suitable to the material being sawed or drilled; See OSHA (29 CFR Part 1910.1200). Diamond Blades improperly used are dangerous. Comply with American National Standards Institute Safety Code, B7.1 and, Occupational Safety and Health Act covering Speed, Safety Guards, Flanges, Mounting Procedures, General Operating Rules, Handling, Storage and General Machine Conditions.

CALIFORNIA PROPOSITION 65 MESSAGE:

⚠WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contain chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead, from lead-based paints
- Crystalline silica, from bricks and cement and other masonry products and
- Arsenic and chromium, from chemically treated lumber

For further information, consult the following sources:

<http://www.osha-slc.gov/sltc/silicacrystalline/index.html>

http://www.oehha.org/prop65/out_of_date/6022kLstA.html

Your risk from these exposures varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

SAFETY

ELECTRICAL REQUIREMENTS AND GROUNDING INSTRUCTIONS:

In order to prevent potential electrical shock and injury, the following electrical safety precautions and symbols should be followed at all times!

⚠ WARNING



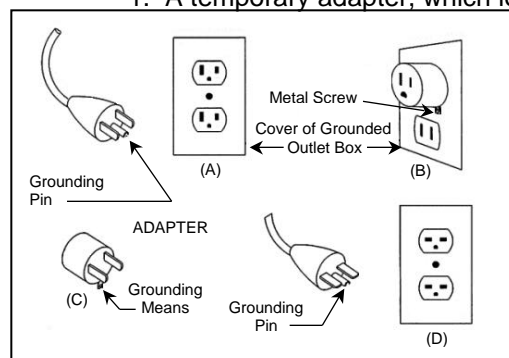
In case of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

- Do not modify the plug provided – if it will not fit the outlet; have the proper outlet installed by a qualified electrician
- Improper connections of the equipment-grounding conductor can result in a risk of electric shock. The equipment-grounding conductor is the insulated conductor that has an outer surface that is green, with or without yellow stripes. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal
- Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded
- Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug
- Repair or replace a damaged or worn cord immediately

⚠ WARNING



This tool is intended for use on a circuit that has an outlet that looks like the one shown in Sketch A of Figure 1. The tool has a grounding plug that looks like the plug illustrated in Sketch A of FIGURE 1. A temporary adapter, which looks like the adapter illustrated in sketches B and C, may be used to



connect this plug to a 2-pole receptacle as shown in Sketch B, if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, lug, and the like, extending from the adapter, must be connected to a permanent ground such as a properly grounded outlet box.

NOTE: Use of a temporary adapter is not permitted in Canada.

FIGURE 1

⚠ WARNING



To reduce the risk of electrocution, keep all connections dry and off the ground.

A Ground Fault Circuit Interrupter (GFCI) should be provided on the circuit(s) or outlet(s) to be used for the Brick Saw. Receptacles are available having built-in GFCI protections and may be used for this measure of safety.

When using an extension cord, the GFCI should be installed closest to the power source, followed by the extension cord and lastly, the saw.

SAFETY

⚠ WARNING



To avoid the possibility of the appliance plug or receptacle getting wet, position the saw to one side of a wall mounted receptacle. This will prevent water from dripping onto the receptacle or plug. A "drip loop," shown in FIGURE 2, should be arranged by the user to properly position the power cord relative to the power source.

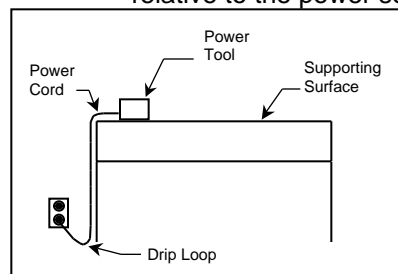


FIGURE 2

The "drip loop" is that part of the cord below the level of the receptacle, or the connector, if an extension cord is used. This method of positioning the cord prevents the travel of water along the power cord and coming in contact with the receptacle.

If the plug or receptacle gets wet, DO NOT unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the tool. Then unplug and examine for presence of water in the receptacle.

⚠ WARNING



Use only extensions cords that are intended for outdoor use. These extension cords are identified by a marking "Acceptable for use with outdoor appliances; store indoors while not in use." Use only extension cords having an electrical rating not less than the rating of the product. Do not use damaged extension cords. Examine extension cords before using and replace if damaged. Do not abuse extension cords and do not yank on any cord to disconnect. Keep cords away from heat and sharp edges. Always disconnect the extension cord from the receptacle before disconnecting the product from the extension cord.

To reduce the risk of electrocution, keep all connections dry and off the ground. Do not touch the plug with wet hands.

⚠ WARNING



Use of undersize extension cords result in low voltage to the motor that can result in motor burnout and premature failure. MK Diamond warns that equipment returned to us showing signs of being run in a low voltage condition, through the use of undersized extension cords will be repaired or replaced totally at the customers' expense. There will be no warranty claim.

To choose the proper extension cord,

- Locate the length of extension cord needed in TABLE 1 below.
- Once the proper length is found, move down the column to obtain the correct AWG size required for that length of extension cord.

As an example, a fifty (50) foot extension cord would require an AWG size of 12 for a 115 volt circuit.

Extension Cord Minimum Gage for Length				
Volts	Total Length of Cord in Feet			
	25 ft. AWG	50 ft. AWG	100 ft AWG	150 ft. AWG
115V	14	12	Not Recommended	
230V	N/A	14	12	N/A

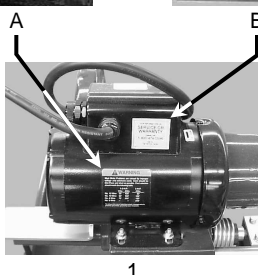
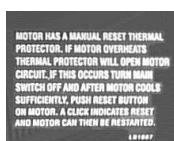
TABLE 1

SAFETY

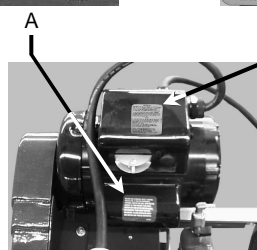
SAFETY LABEL LOCATIONS:

Safety labels are located according to Figures 1 through 5 below. The labels contain important safety information. Please read the information contained on each safety label. These labels are considered a permanent part of your saw. If a label comes off or becomes hard to read, contact MK Diamond or your dealer for a replacement

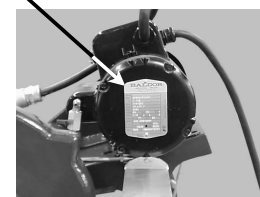
Item	Location	Description	Part No.
1A.	Motor Rear	Warning – Extension Cord Information	155672
1B.	Motor Rear	Service or Warranty Information	155038
2A.	Motor Top	Thermal Protection Information	N/A
2B.	Motor Top	Motor Grounding Information	N/A
3.	Motor, Right Side	Motor Electrical Information	N/A
4A.	Blade Guard, Left Side	Caution – General Safety Information	155040
4B.	Blade Guard, Left Side	Saw Serial Number	157007
5A.	Pump, Left Side	Warning Connect to Grounded Receptacle	N/A
5B.	Pump, Right Side	Pump Specifications	N/A



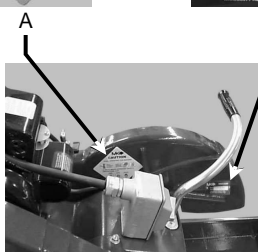
1



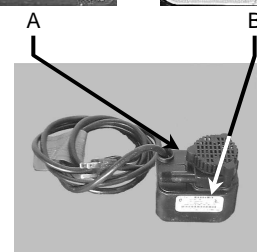
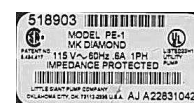
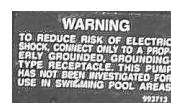
2



3



4



5

BRICK SAW SPECIFIC WARNINGS:

⚠ WARNING

Wear eye protection.

Use splash hood for every operation for which it can be used.

Disconnect saw before servicing, when changing cutting blades, and cleaning.

Use tool only with smooth edge cutting blades free of openings and grooves.

Replace damaged cutting blade before operating.

SAFETY

PRODUCT SPECIFICATIONS:

The MK-2000 Pro is a versatile Brick Saw. Operated and used according to this manual, the MK-2000 Pro will provide years of dependable service.

General Description:

The MK-2000 Pro Brick Saw is engineered as a portable brick saw powered by either a 2 or 3 horsepower electric motor. The saw is capable of cutting masonry up to five (5) inches (127 mm) in height, thirty-one (31) inches (79mm) in length and twenty-three (23) inches (58mm) in width in a single pass.

Motor Specifications:

Motor specifications for the MK-2000 Pro are listed in Table 2 below.

Horse Power	2.0 hp	3.0 hp
Voltage	115 v / 230 v	115 v / 230 v
Overall Amperage	16.8 a / 8.4 a	26.6 a / 13.3 a
Frequency*	60	60
RPM	3450 rpm	3450 rpm
Weight	165 lbs	165 lbs

Table 2

Thermal Overload Protection:

The motor is protected by a thermal overload equipped with a manual reset.

Blade Capacity:

The MK-2000 Pro is designed for use with a 14-inch diameter segmented wet or dry MK Diamond blade with a .110 to .375 inch cutting width.

Masonry Types:

The MK-2000 Pro can cut a variety of masonry types including, cinder block, slump stone block, wall brick, paver brick, concrete block and cylinders, roofing tile, marble, granite, decorative rock or almost any other non-ferrous material.

NOTE:

The MK-2000 Pro is not designed to cut plastic or ferrous (metals) material.

Spring Assisted Cutting Head:

The MK-2000 Pro is designed with a spring-assisted cutting head to allow for easier step cutting. The Cutting Head can be locked in the down position when cutting smaller pieces.

* The MK-2000 series is also available with a 50hz motor.

UNPACKING, TRANSPORT, UNIVERSAL STAND and ASSEMBLY

UNPACKING:

Your MK-2000 PRO has been shipped from the factory thoroughly inspected. Only minimal assembly is required.

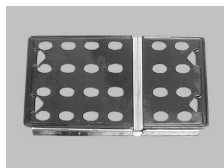
CAUTION Use proper lifting techniques when lifting the MK-2000 PRO.

CONTENTS:

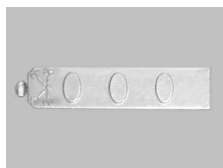
In your container, you will find one (1) MK-2000 PRO, one (1) MK-2000 PRO movable cutting table, one (1) adjustable cutting guide, one (1) electric water pump, one (1) pump discharge fitting, one (1) cooling transfer tube, one (1) flow adjusting clamp, one (1) drain plug, one (1) blade wrench, one (1) owners manual, one (1) pump manual and one (1) warranty card.



MK-2000 PRO



Movable
Cutting Table



Adjustable
Cutting Guide



Electric
Water Pump



Pump
Discharge Fitting



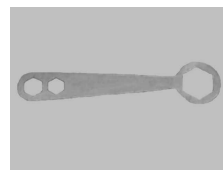
Cooling
Transfer Tube



Flow
Adjusting Clamp



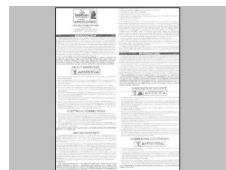
Drain Plug



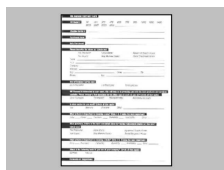
Wrench



Owners
Manual



Pump
Manual



Warranty
Card

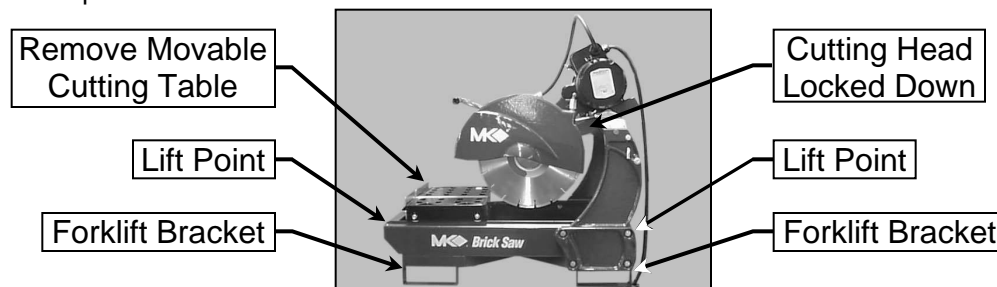
TRANSPORT:

- CAUTION**
1. The MK-2000 PRO weighs approximately one hundred and sixty-five (165) pounds; use care when transporting.
 2. Never transport the MK-2000 PRO with water in the Water Basin.

- NOTE:**
1. Lock the Cutting Head in the "DOWN" position and remove the Movable Cutting Table when transporting the MK-2000 PRO.
 2. The MK-2000 Pro is equipped with forklift brackets for in lifting and moving the saw.

The MK-2000 Pro is designed with legs in the front and rear for ease of transport. To transport –

- Verify the Movable Cutting Head is locked in the down position and the Movable Cutting Table is removed
- Position two people on either side of the saw
- From the side, grasp the front and rear of the saw
- Lift and transport the saw to the desired work location

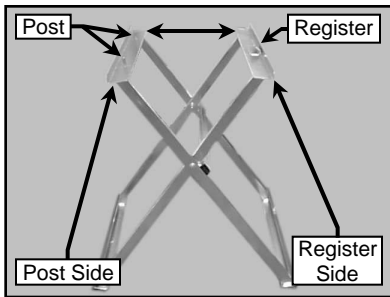


UNPACKING, TRANSPORT, UNIVERSAL STAND and ASSEMBLY

UNIVERSAL STAND:

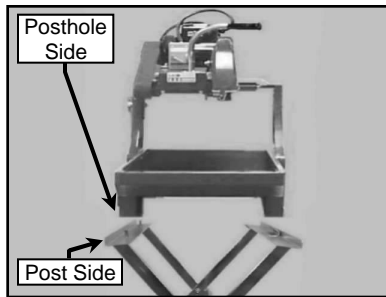
⚠CAUTION The MK-2000 PRO weighs one hundred and sixty-five (165) pounds; follow the guidelines for transport in the TRANSPORT section, when placing it on the stand.

Note: If using the MK Diamond, Universal Stand, follow the following steps.



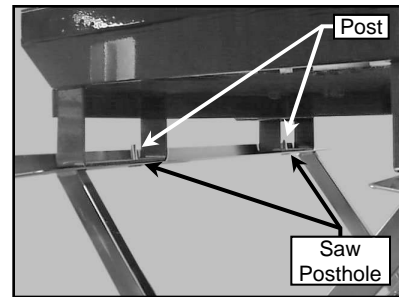
(A)

Open the Universal Stand and place it on flat surface then identify the Post side and Register side of the Stand



(B)

Orient the Saw to the Stand; ensure the Postholes located on the two Left Feet of the Saw are centered above the Stand Posts



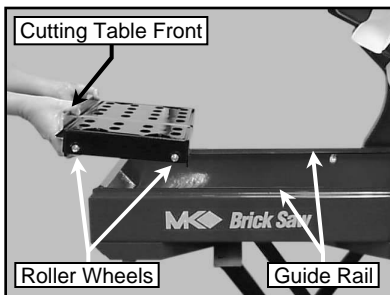
(C)

Verify the Saw is seated on the stand with the Stand Posts through the Saw Postholes

ASSEMBLY:

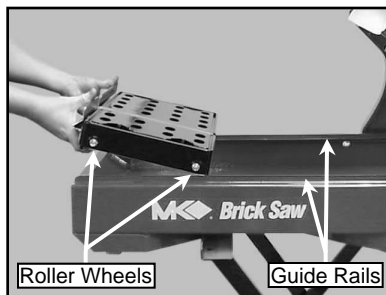
Follow the assembly instructions in this section to prepare your MK-2000 PRO for operation.

1. Movable Cutting Table Installation:



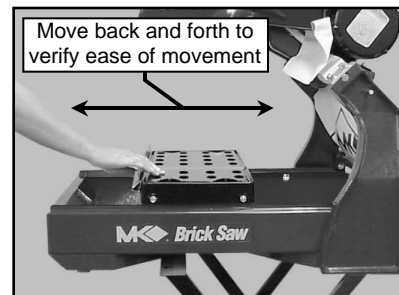
(A)

While holding the front, position Movable Cutting Table Roller Wheels above Guide Rails



(B)

Seat Movable Cutting Table Roller Wheels on Saw Guide Rails



(C)

Verify Movable Cutting Table is seated correctly

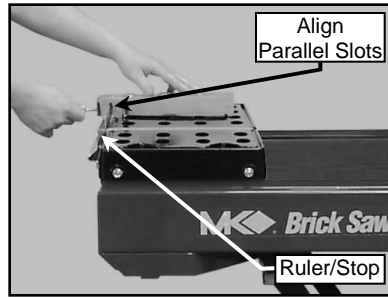
UNPACKING, TRANSPORT, UNIVERSAL STAND and ASSEMBLY

2. Adjustable Cutting Guide Installation:

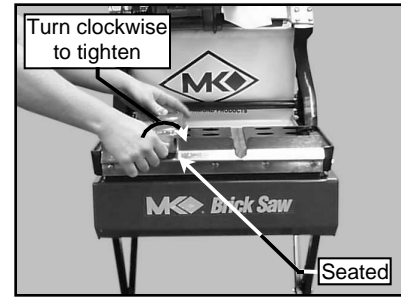
NOTE: The Adjustable Cutting Guide can be used on either side of the Diamond Blade.



(A)
Loosen Adjustable Cutting Guide retaining thumbscrew



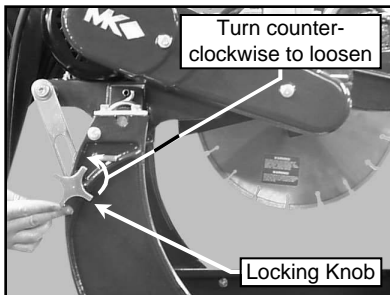
(B)
Position Adjustable Cutting Guide above Movable Cutting Table



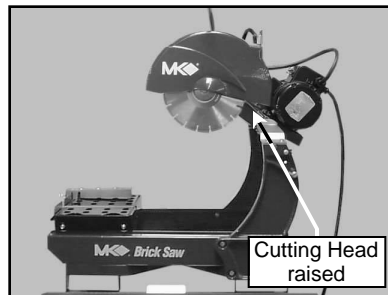
(C)
Seat and tighten the Adjustable Cutting Guide retaining thumbscrew

4. Diamond Blade Installation:

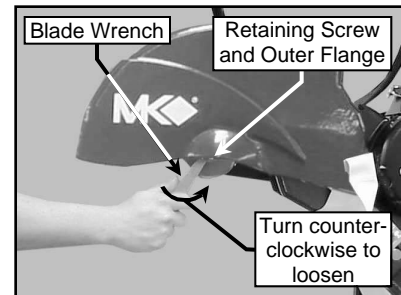
NOTE: When installing the diamond blade retaining-bolt, ensure the threads of the bolt are aligned with the threads of the drive shaft so as not to "cross-thread" the bolt.



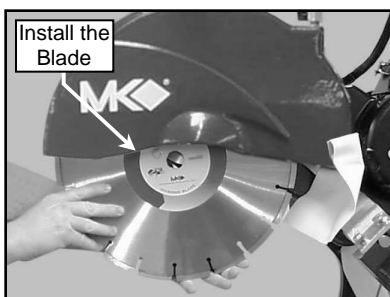
(A)
Loosen the Cutting Head Locking Knob



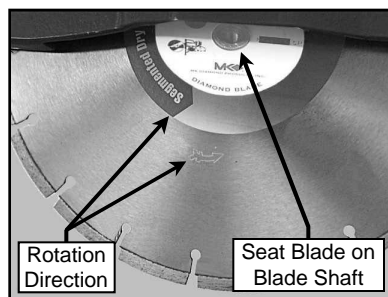
(B)
Raise Cutting Head to the highest position and tighten the Locking Handle



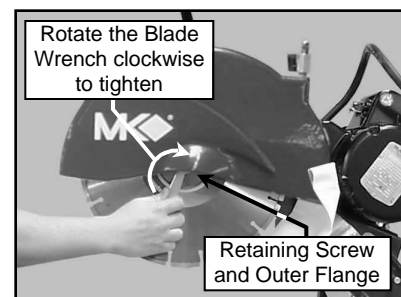
(C)
Identify and remove Retaining Screw and Outer Flange using the Blade Wrench



(D)
Install the Diamond Blade onto Blade Shaft



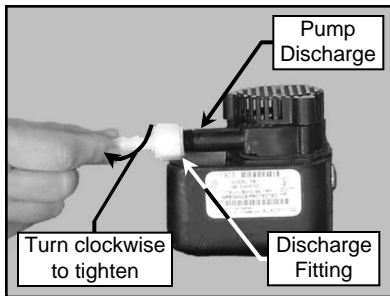
(E)
Verify the Blade is seated on the Blade Shaft and the Directional Arrows are facing out



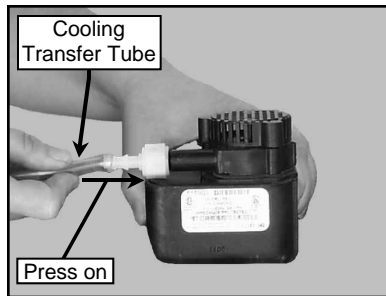
(F)
Install the Retaining Screw and Outer Flange and then tighten

UNPACKING, TRANSPORT, UNIVERSAL STAND and ASSEMBLY

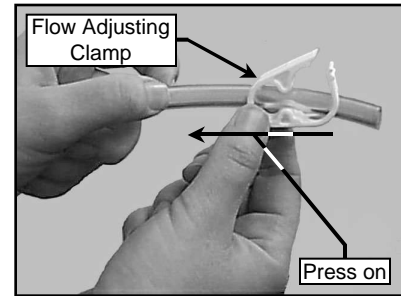
5. Water Pump Preparation:



(A)
Thread the Water Pump
Discharge Fitting onto the
Water Pump discharge



(B)
Press one end of the Cooling
Transfer Tube onto the Water
Pump Discharge Fitting



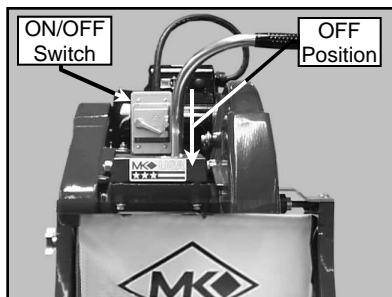
(C)
Slide Cooling Flow Adjusting
Clamp onto the Cooling
Transfer Tube

SETUP, ADJUSTMENT and OPERATION

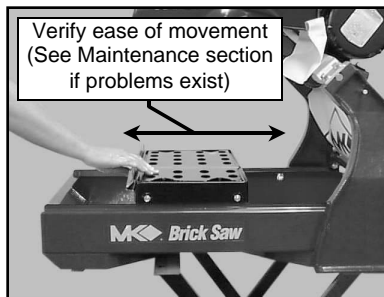
SETUP:

1. Pre-start Inspection:

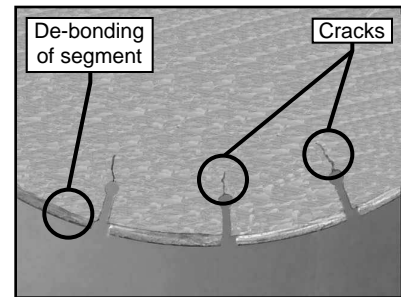
Prior to beginning work, a pre-start inspection of the saw should be performed.



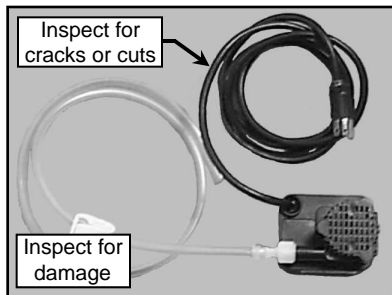
(A)
Ensure the ON/OFF Switch is in the OFF position



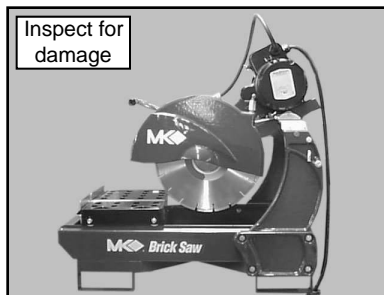
(B)
Verify the Movable Cutting Table moves freely along the Guide Rails



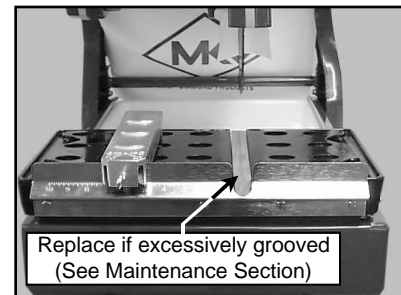
(C)
Inspect the Diamond Blade for damage, cracks and de-bonding; verify the blade is correct for the material being cut



(D)
Inspect the Pump Assembly for damage – ensure the cord is free of cracks or cuts



(E)
Inspect the MK-2000 PRO for damage – ensure the cord is free of cracks or cuts

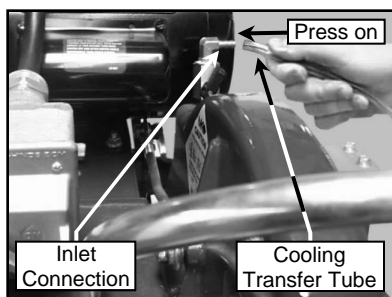


(F)
Inspect the Wooden Protective Strip for excessive grooves

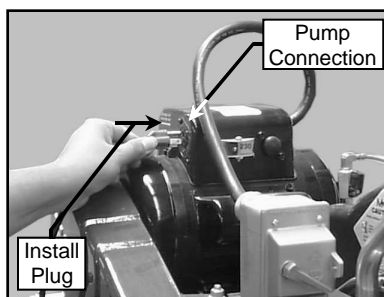
2. Connecting the Water Pump:

- ⚠ WARNING** 1. To prevent the possibility electrical shock, the MK-2000 PRO MUST be de-energized when connecting the Water Pump.
2. To prevent the possibility of electrical shock, use only MK Diamond qualified replacement parts

NOTE: To prevent pump damage, the Water Pump must be disconnected if cutting with a Dry Blade.



(A)
Connect the Cooling Transfer Tube to the inlet connection of the Blade Guard



(B)
Connect the Water Pump power cord to the connection found on the back of the motor

SETUP, ADJUSTMENT and OPERATION

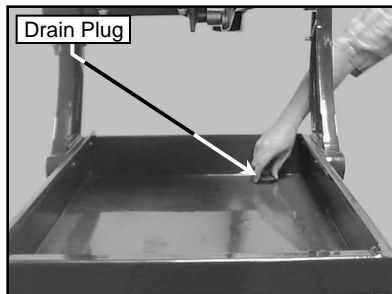
3. Water Pump Setup for Operation:

The Water Pump can be setup for operation in two ways, External Water Source or Re-circulation.

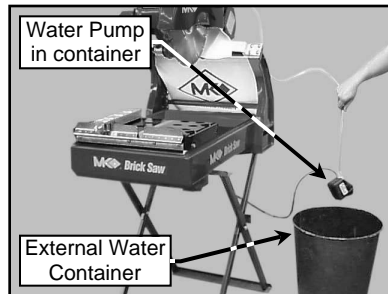
NOTE: If using a dry blade for operation, DO NOT connect the water pump.

I. External Water Source:

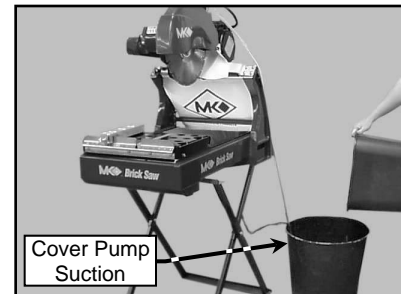
This is the preferred method of cooling.



(A)
Verify or remove the Drain plug
from the Water Pan



(B)
Place the Water Pump in an
external container



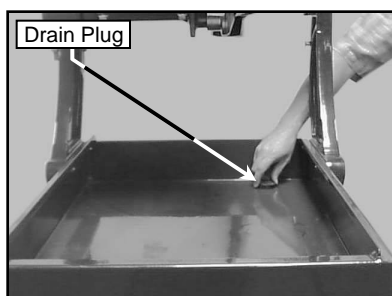
(C)
Fill the external container until
water completely covers the
Water Pump suction



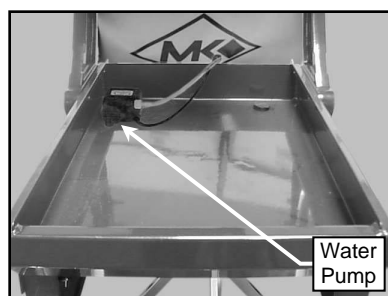
(D)
Place an external catch basin
below the Water Pan drain hole

II. Re-circulation:

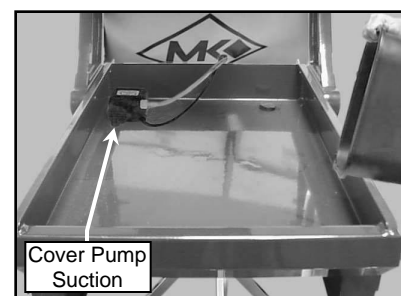
NOTE: When using the re-circulation method, the water should be changed often for longer pump life.



(A)
If not installed, install the Drain
Plug into the Water Pan



(B)
Place the Water Pump in the
back of the Water Pan



(C)
Fill the Water Pan until water
completely covers the Water
Pump suction

SETUP, ADJUSTMENT and OPERATION

4 MK-2000 PRO Setup for Operation:

- ⚠CAUTION** 1. Before powering or starting, check for damage that could prevent this equipment from proper operation or performing its intended function. Check for binding and alignment of moving parts. Check for damaged, broken, or missing parts.
2. Verify the On/Off switch is in the OFF position.
3. Before connecting the MK-2000 PRO to a power supply, be sure the voltage, cycle and phase of the job site power source meet one of the requirements of TABLE 3

VOLTAGE:	115v/230v
CYCLE:	60hz
PHASE:	1-phase

TABLE 3

4. If using an extension power cord, make sure the length and wire gauge correspond to the requirements listed in TABLE 1 on page 8. An extension power cord that is too small in wire gauge (diameter), or too long in length, will cause the motor to overheat and could cause premature failure.
5. Do not cover the motor vents as this could lead to motor overheating.

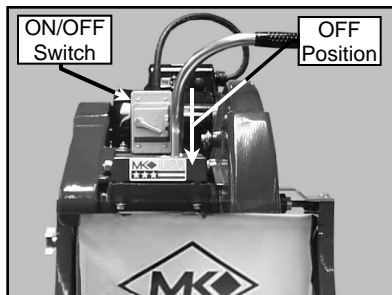
NOTE: In order to avoid breaker tripping, a 20-amp circuit breaker should be used.

Portable Generator:

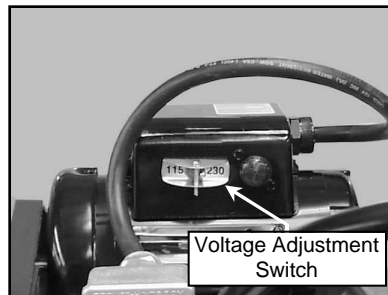
If using a portable generator to provide power, ensure the generator meets the following minimum requirements:

8 KW 120/240 volts 66.7/33.3 amps Single Phase

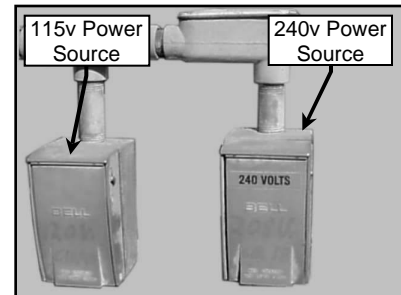
⚠WARNING The MK-2000 PRO motor has 2 voltage positions, 115v and 240v. Ensure the Voltage Adjustment Switch of the MK-2000 PRO motor is set for the voltage of the intended power source **BEFORE** installing the MK-2000 PRO Power cord.



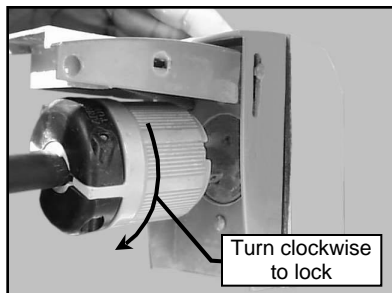
(A)
Ensure the ON/OFF Switch is in the OFF position



(B)
Verify or place the Voltage Adjustment Switch in the correct voltage position (See the Maintenance Section)



(C)
Locate the correct power source for the setting of the MK-2000 PRO Voltage Adjustment Switch



(D)
Align, install and twist to lock the Polarized plug of the MK-2000 PRO into the correct power

SETUP, ADJUSTMENT and OPERATION

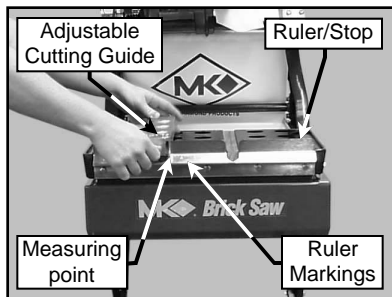
ADJUSTMENT and OPERATION:

- NOTE: 1. Step Cutting is the preferred cutting method for all cuts.
2. When cutting hard material Step Cutting should always be used.
3. Step Cutting will extend the life of the Diamond Blade.

1. Step Cuts:

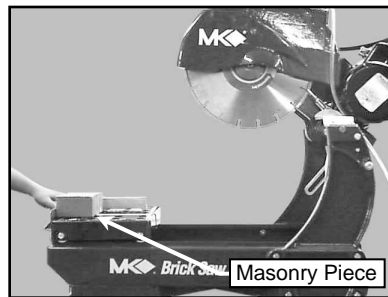
A Step Cut is performed when a series of small cuts of increasing depth are used to complete a single cut. Step Cuts are used for large objects or for hard objects such as Firebrick and Pavers.

Note: Skip steps E and F, if cutting dry.



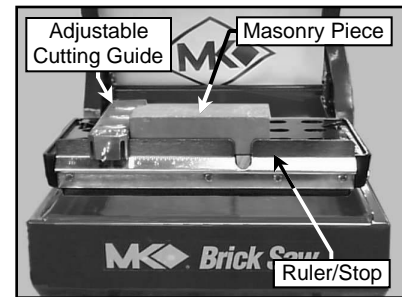
(A)

Set the Adjustable Cutting Guide to the desired length indicated on the side of the Ruler/Stop closest to the Wooden Strip



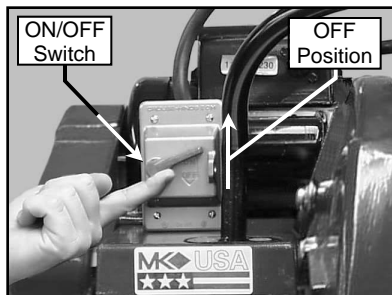
(B)

Place the Masonry Piece onto the Movable Cutting Table



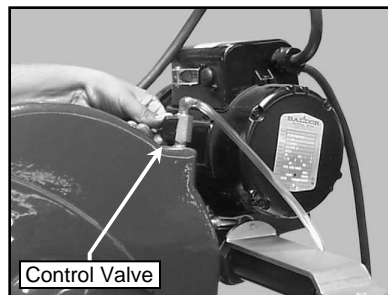
(C)

Verify the Masonry Piece is seated against the Ruler/Stop and the Adjustable Cutting Guide



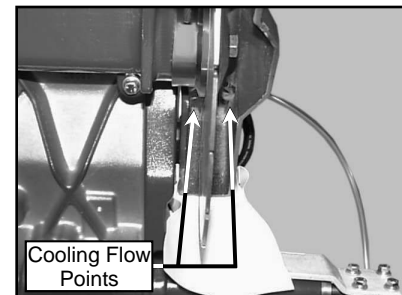
(D)

Place the ON/OFF Switch in the ON position



(E)

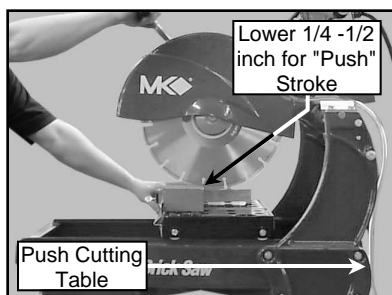
Open the Cooling Flow Control Valve and adjust cooling flow



(F)

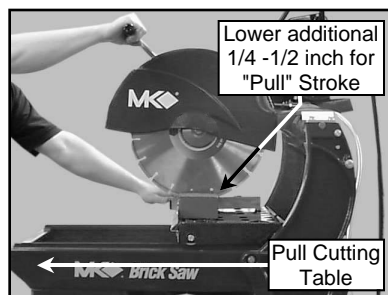
Verify cooling flow exists on both sides of the blade

⚠CAUTION Cut in smooth even strokes; do not force the saw to cut.



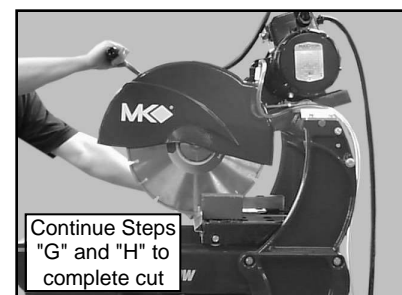
(G)

Hold the Masonry Piece, lower the Cutting Head and "Push" the Piece toward the Blade



(H)

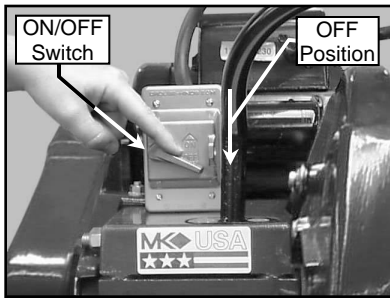
Once the "Push" cut is complete, lower the Cutting Head further and "Pull" the Piece forward into the Blade



(I)

Repeat steps G and H until cutting is complete

SETUP, ADJUSTMENT and OPERATION



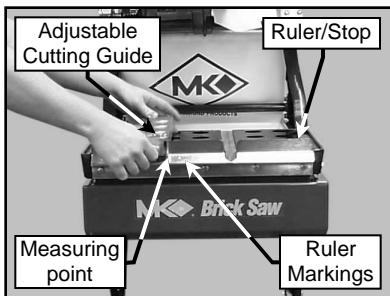
(J)

Turn the Saw off when cutting is complete

2. Chop Cutting:

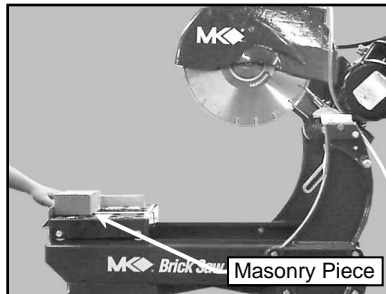
A Chop Cut is performed by cutting completely through an object in one pass.

Note: Skip steps E and F, if cutting dry.



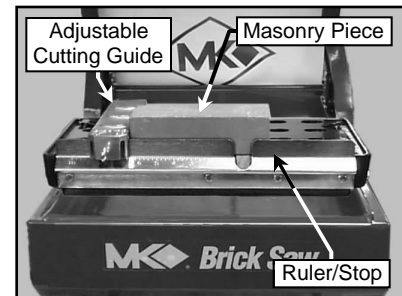
(A)

Set the Adjustable Cutting Guide to the desired length indicated on the side of the Ruler/Stop closest to the Wooden Strip



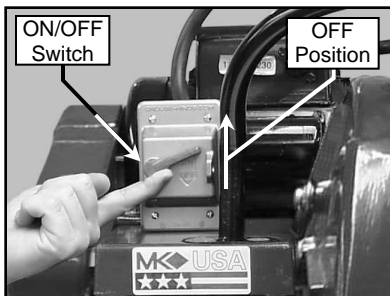
(B)

Place the Masonry Piece onto the Movable Cutting Table



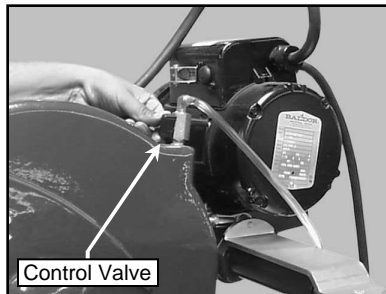
(C)

Verify the Masonry Piece is seated against the Ruler/Stop and the Adjustable Cutting Guide



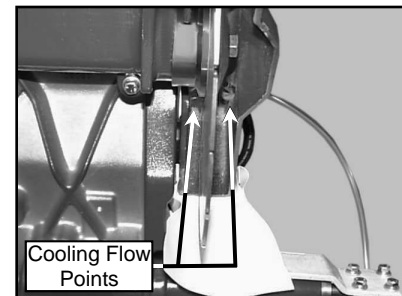
(D)

Place the ON/OFF Switch in the ON position



(E)

Open the Cooling Flow Control Valve and adjust cooling flow

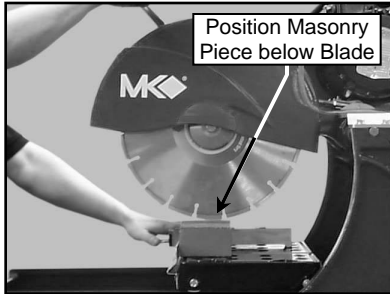


(F)

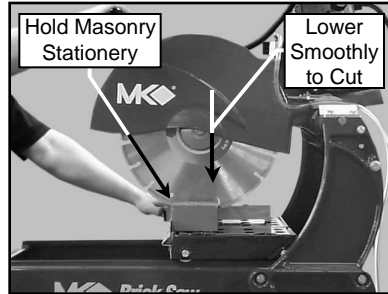
Verify cooling flow exists on both sides of the blade

SETUP, ADJUSTMENT and OPERATION

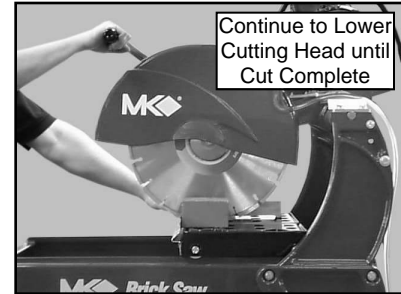
⚠CAUTION Cut in smooth even strokes; do not force the saw to cut.



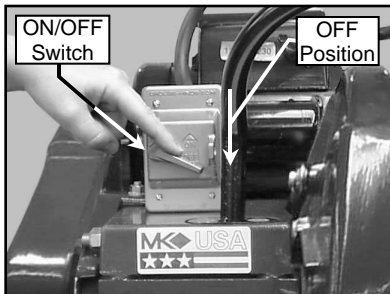
(G)
Position the Masonry Piece below the Blade



(H)
Lower the Cutting Head to begin the cut



(J)
Continue lowering the Cutting Head until the cut is complete raise the cutting head when the cut is complete



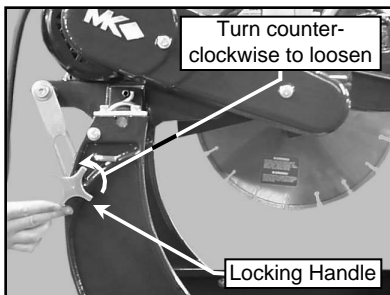
(K)
Turn the Saw off when cutting is complete

3. Cutting with the Cutting Head Locked Down:

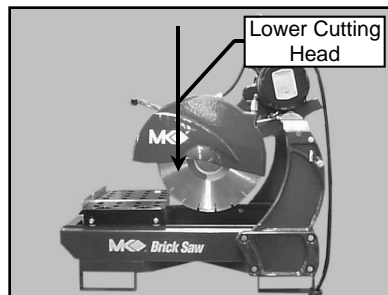
This method is preferred when cutting small objects.

⚠CAUTION Cut in smooth even strokes; do not force the saw to cut.

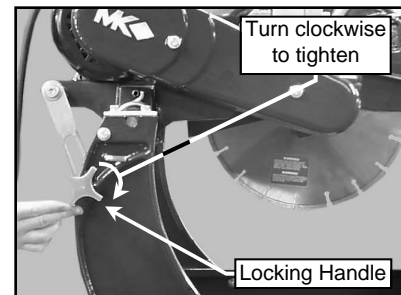
Note: Skip steps H and I, if cutting dry.



(A)
If locked, loosen the Cutting Head Locking Knob

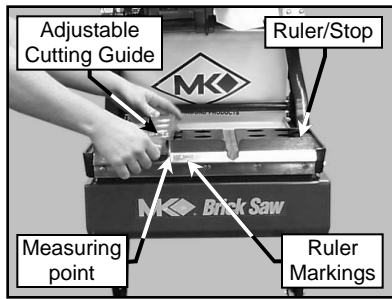


(B)
Lower the Cutting Head until the Blade touches the Protective Wooden Strip



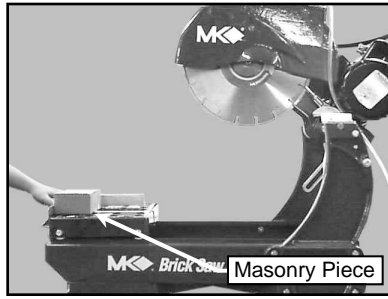
(C)
Lock the Cutting Head in the "Down" position using the Locking Knob

SETUP, ADJUSTMENT and OPERATION



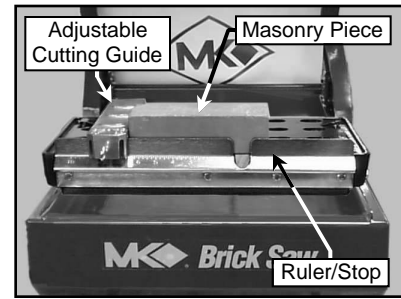
(D)

Set the Adjustable Cutting Guide to the desired length indicated on the side of the Ruler/Stop closest to the Wooden Strip



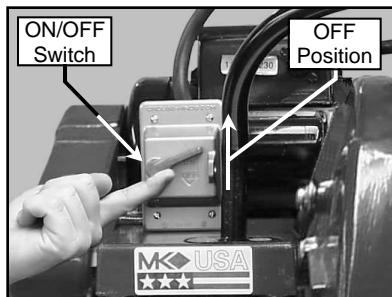
(E)

Place the Masonry Piece onto the Movable Cutting Table



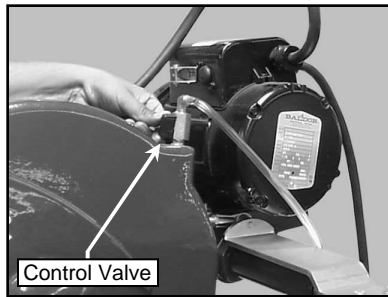
(F)

Verify the Masonry Piece is seated against the Ruler/Stop and the Adjustable Cutting Guide



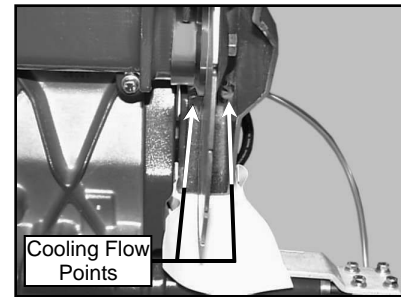
(G)

Place the ON/OFF Switch in the ON position



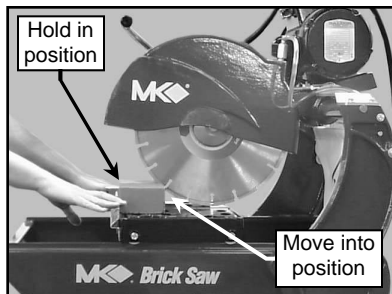
(H)

Open the Cooling Flow Control Valve and adjust cooling flow



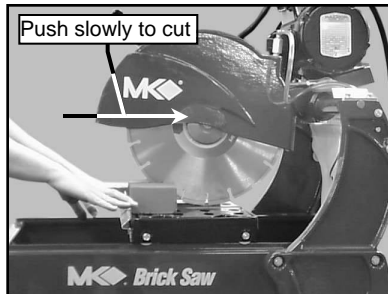
(I)

Verify cooling flow exists on both sides of the blade



(J)

Move the Cutting Table to position the Masonry Piece in front of the Blade



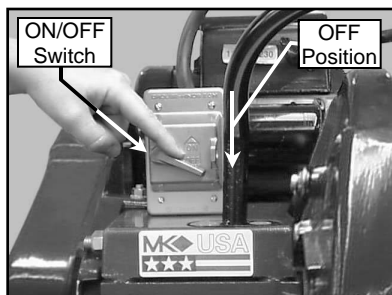
(K)

Slowly push piece into the blade until cutting begins



(L)

Continue to push the Masonry Piece into the Blade until the cut is complete



(M)

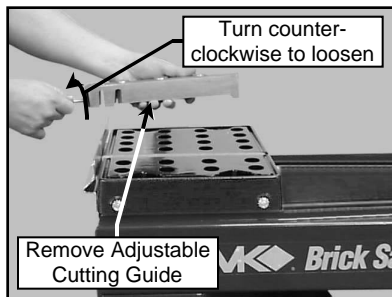
Turn the Saw off when cutting is complete

SETUP, ADJUSTMENT and OPERATION

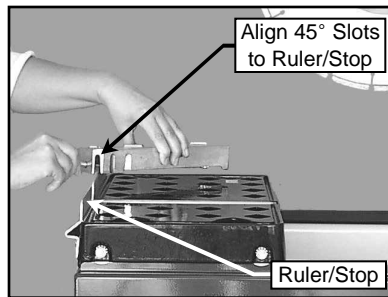
4. Angle Cuts:

Angle Cuts may be performed using any cutting method. The following example uses the Step Cut method.

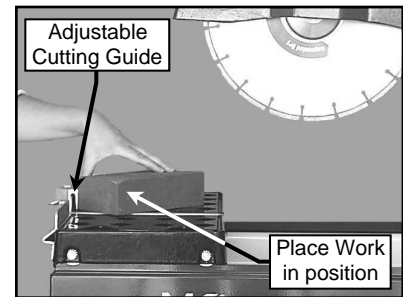
Note: Skip steps F and G, if cutting dry.



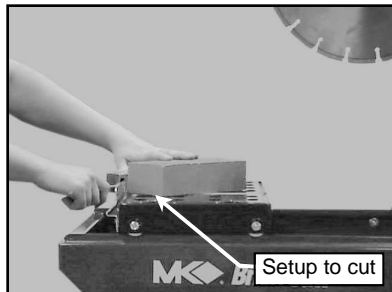
(A)
Remove the Adjustable
Cutting Guide



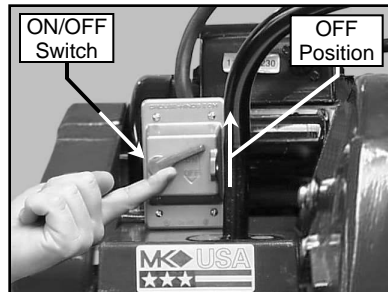
(B)
Reposition the Adjustable Cutting
Guide to the 45° cutting position



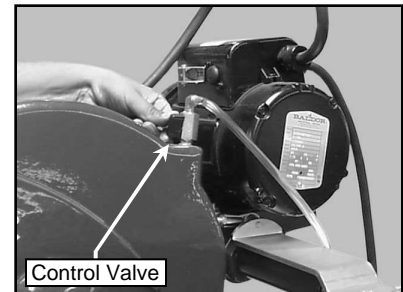
(C)
Position Masonry Piece against
the Adjustable Cutting Guide



(D)
Position the Masonry Piece
and Adjustable Cutting Guide
to the desired cut length

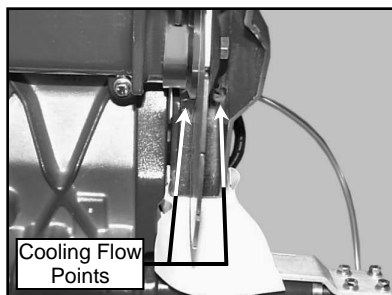


(E)
Place the ON/OFF Switch in
the ON position

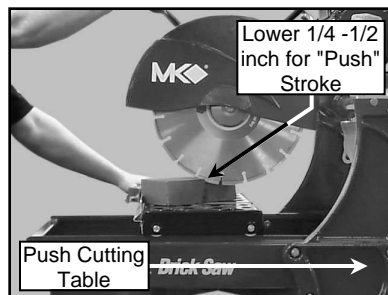


(F)
Open the Cooling Flow Control
Valve and adjust cooling flow

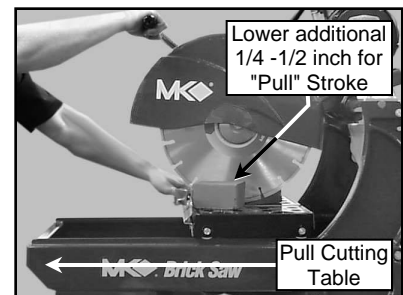
⚠CAUTION Cut in smooth even strokes; do not force the saw to cut.



(G)
Verify cooling flow exists on
both sides of the blade



(H)
Hold the Masonry Piece, lower
the Cutting Head and "Push"
the Piece toward the Blade

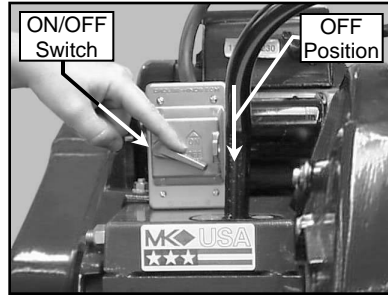


(I)
Once the "Push" cut is
complete, lower the Cutting
Head further and "Pull" the
Piece forward into the Blade

SETUP, ADJUSTMENT and OPERATION



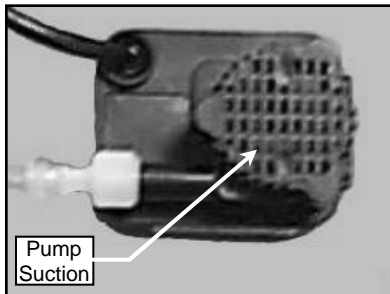
(J)
Repeat steps H and I until cutting is complete



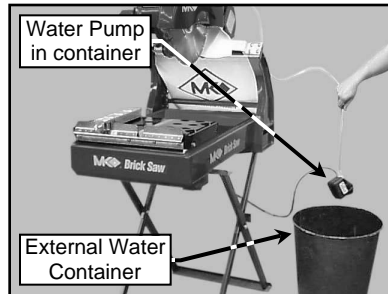
(K)
Turn the Saw off when cutting is complete

5. Cleanup:

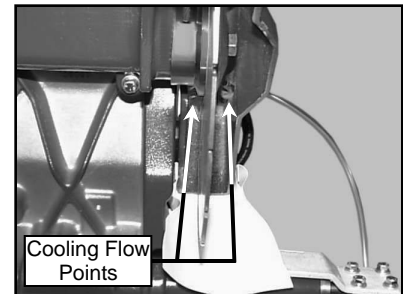
- NOTES: 1. If an external water source was used, steps A through C may be skipped.
2. Dispose of wastewater in accordance with applicable Federal, State and Local laws.



(A)
Clean the Water Pump suction of all debris

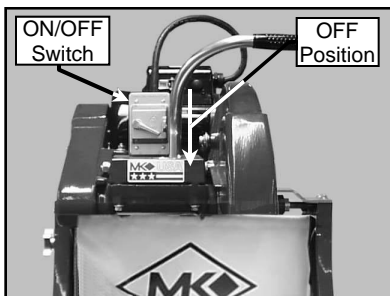


(B)
Place the Water Pump in an external container

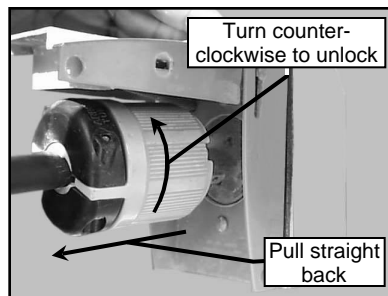


(C)
Run the MK-2000 PRO until clear water is seen at the Blade cooling ports (Approx. 1 minute)

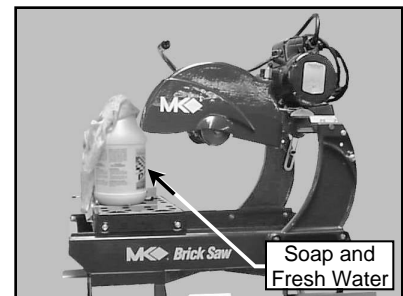
⚠ CAUTION Ensure the saw is disconnected before completing the remainder of the cleanup process.



(D)
Ensure the ON/OFF Switch is in the OFF position

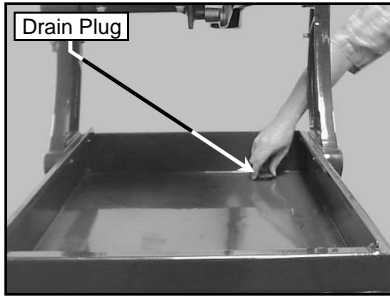


(E)
Unplug the MK-2000 PRO Polarized plug from the power source by turning counter-clockwise and then pulling straight back

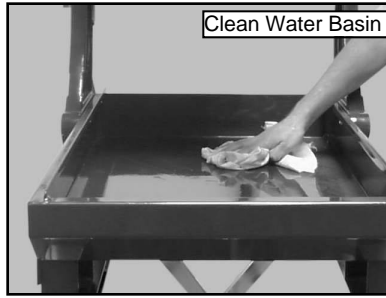


(F)
Clean the MK-2000 PRO with soap and clean water

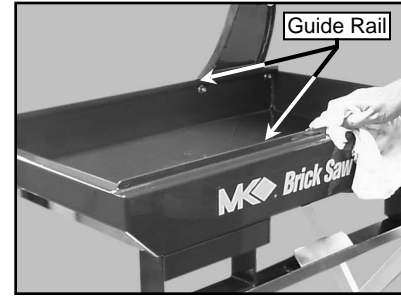
SETUP, ADJUSTMENT and OPERATION



(H)
Remove Drain Plug and
dispose of water (conform to
Federal, State and local laws
for disposal)

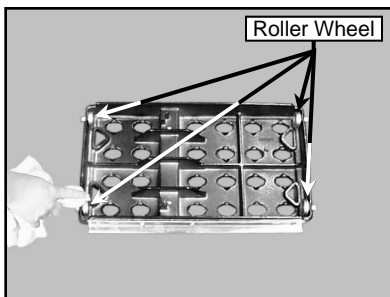


(I)
Clean Water Basin with soap
and clean water



(J)
Clean the Movable Cutting
Table Guide Rails

⚠CAUTION Ensure water is not forced into the motor casing when cleaning.



(K)
Clean the Movable Cutting
Table Roller Wheels



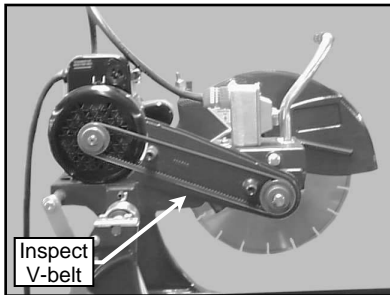
(L)
Clean the remainder of the
MK-2000 PRO

MAINTENANCE AND TROUBLESHOOTING

MAINTENANCE:

1. New Maintenance:

Perform the following after initial purchase and operation of the MK-2000 PRO.



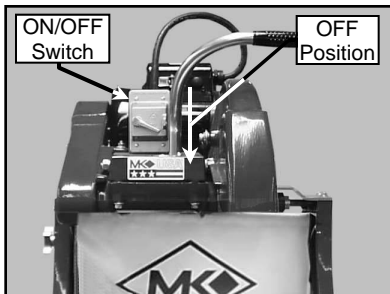
(A)

Check and adjust V-belt tension following the first 48 hours of operation (See V-belt Inspection)

2. Maintenance Following Use:

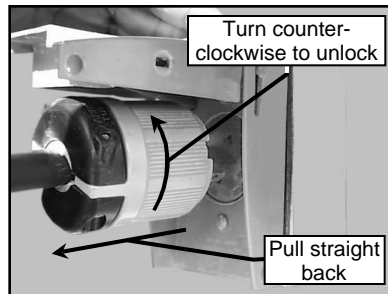
To extend the life of the MK-2000 PRO, the following procedure should be performed after each use.

Lubricate all points listed below with light oils such as, 3 in 1, WD-40, etc.



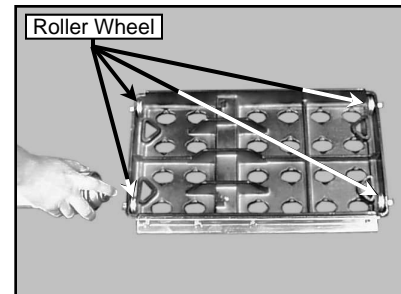
(A)

Ensure the ON/OFF Switch is in the OFF position



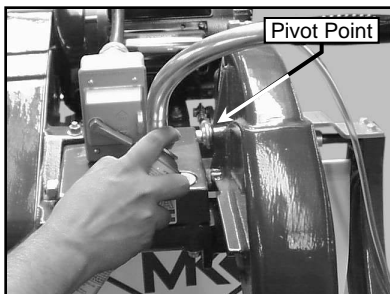
(B)

Unplug the MK-2000 PRO Polarized plug from the power source by turning counter-clockwise and then pulling straight back



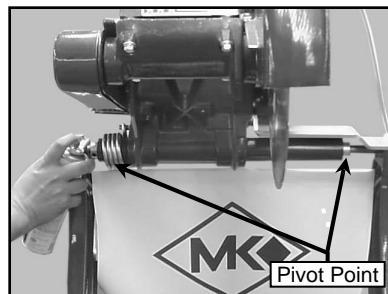
(C)

Lubricate the Movable Cutting Table Roller Wheels



(D)

Lubricate the Blade Guard Pivot Points



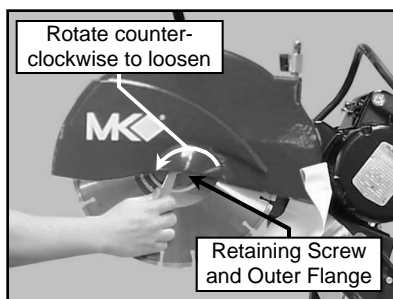
(E)

Lubricate the Cutting Head Pivot Points

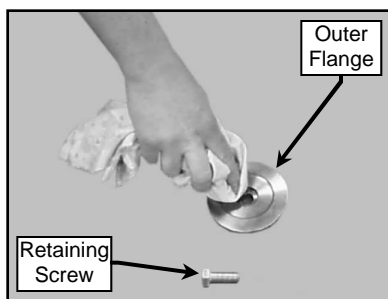
MAINTENANCE AND TROUBLESHOOTING

3. Monthly Maintenance:

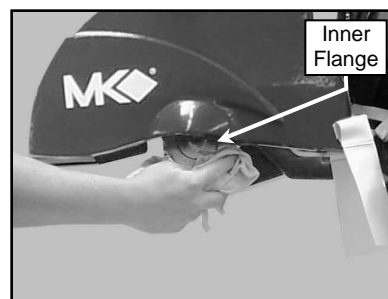
The following maintenance should be performed monthly.



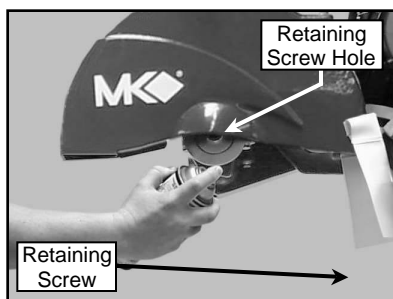
(A)
Remove the Diamond Blade



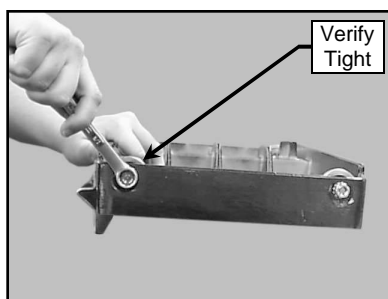
(B)
Clean the Outer Flange and
Retaining Screw



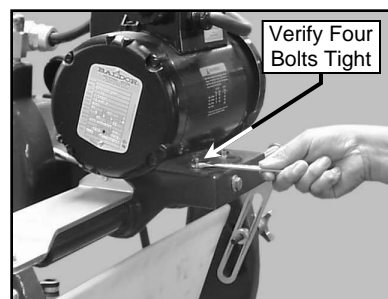
(C)
Clean the Inner Flange



(D)
Lubricate the Retaining Screw
and Retaining Screw Hole



(E)
Verify the Movable Cutting
Table Roller Wheels are tight
and in good condition



(F)
Verify all motor mounting Bolts
are tight

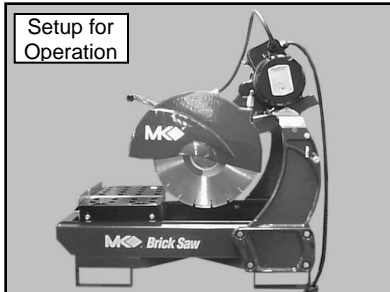


(G)
Verify the Motor Adjustment
Strap is tight

MAINTENANCE AND TROUBLESHOOTING

4. Blade Dressing:

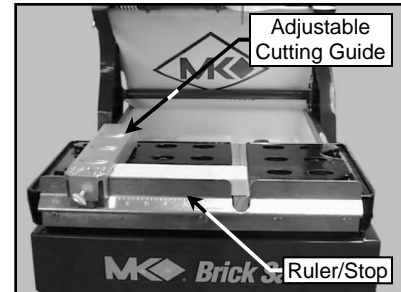
Like most cutting instruments, a diamond blade performs best when it is dressed. Over time and use, diamonds on the outer edge of the blade will become smoothed or “glazed” over. This will reduce grinding efficiency and may cause the blade to “wander” or bend giving the illusion of an alignment problem. When this occurs, the blade will need to be dressed. The diamond blade can be dressed using the MK Dressing Stick (part number 152972) and by following the steps below.



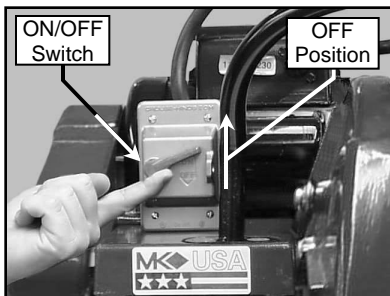
(A)
Setup the MK-2000 PRO for operation (See Setup, Adjustment and Operation)



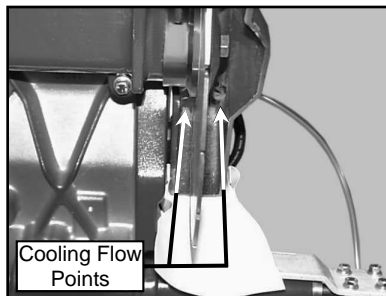
(B)
Set the Adjustable Cutting Guide to cut a 1/16-strip



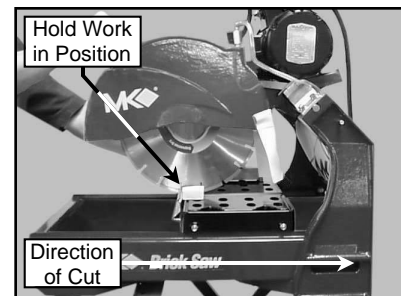
(C)
Position the Dressing Stick against the Adjustable Cutting Guide and the Ruler/Stop



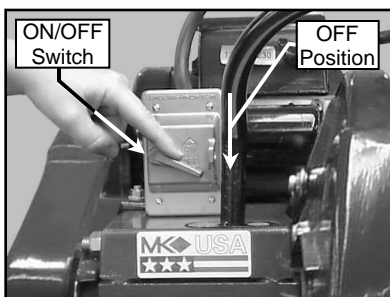
(D)
Place the ON/OFF Switch in the ON position



(E)
Verify cooling flow exists on both sides of the blade



(F)
Cut the Dressing Stick 7 or 8 times to dress the Blade

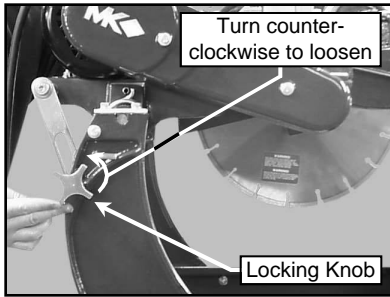


(G)
Turn the Saw off when cutting is complete

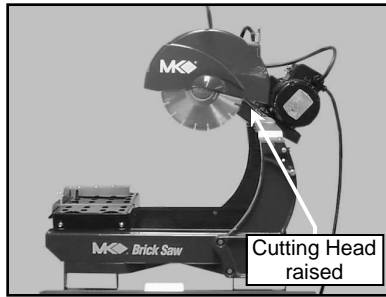
MAINTENANCE AND TROUBLESHOOTING

5. Diamond Blade Change-out:

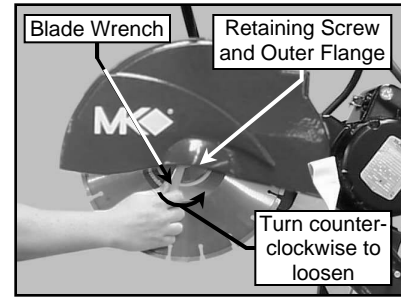
NOTE: When installing the diamond blade retaining-bolt, ensure the threads of the bolt are aligned with the threads of the drive shaft so as not to "cross-thread" the bolt.



(A)
Loosen the Cutting Head
Locking Handle



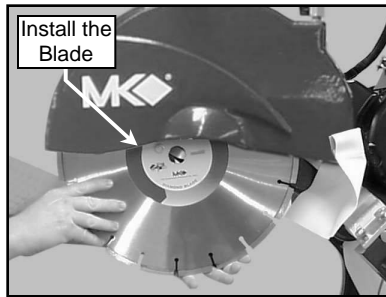
(B)
Raise Cutting Head to the
highest position and tighten the
Locking Handle



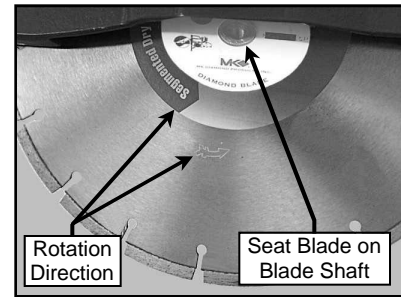
(C)
Identify and remove Retaining
Screw and Outer Flange using
the Blade Wrench



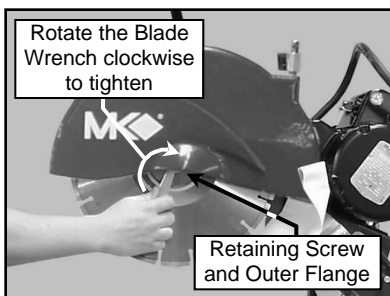
(D)
Remove the old Diamond Blade



(E)
Install the new Diamond Blade
onto Blade Shaft



(F)
Verify the Blade is seated on the
Blade Shaft and the Directional
Arrows are facing out

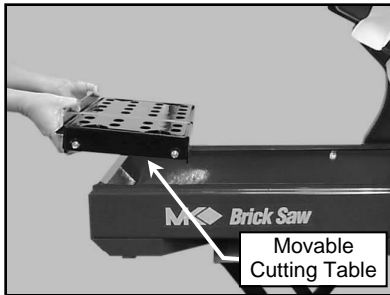


(G)
Install the Retaining Screw and
Outer Flange and then tighten

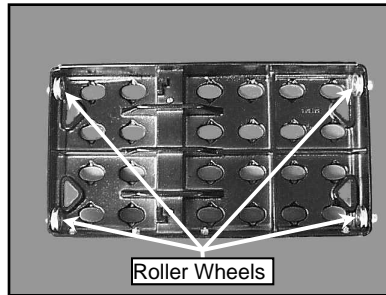
MAINTENANCE AND TROUBLESHOOTING

6. Movable Cutting Table Wheel Change Out:

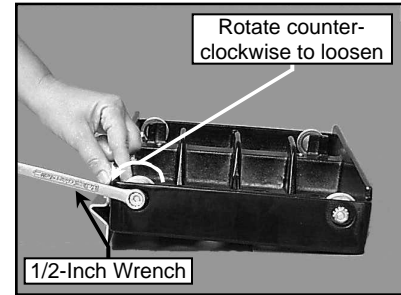
NOTE: All four (4) Movable Cutting Table, Roller Wheels should be replaced at the same time (MK Diamond Part No. – 133090)



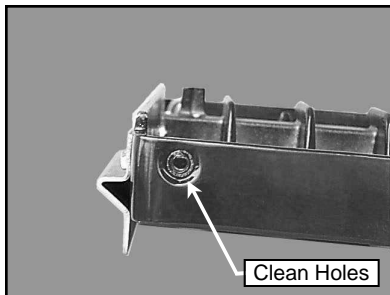
(A)
Remove the Movable Cutting Table



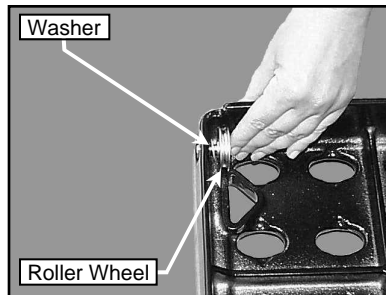
(B)
Place the Movable Cutting Table on a Workbench with the Roller Wheels facing up



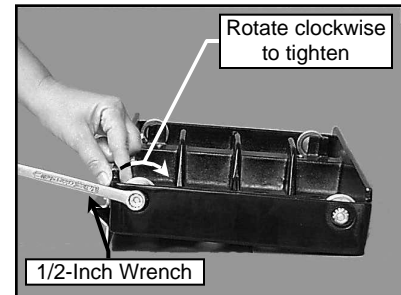
(C)
Using a 1/2-inch wrench, remove the Roller Wheel Retaining Nut and the Roller Wheel



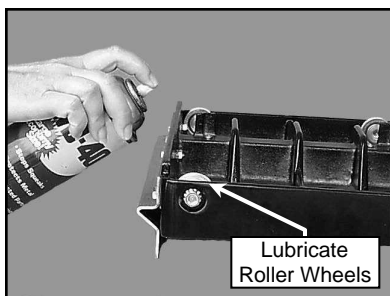
(D)
Clean the Roller Wheel Shaft Holes in the Movable Cutting Table before installing new Roller Wheels



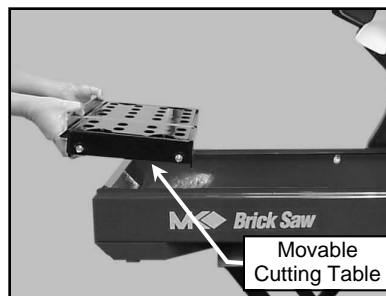
(E)
Install the Wheel/Washer Assembly into Movable Cutting Table Wheel Shaft Hole



(F)
Install the Roller Wheel Retaining Nut and tighten using a 1/2-inch wrench



(G)
Lubricate the Roller Wheels using light oil (Such as WD-40, 3 in 1, etc.)

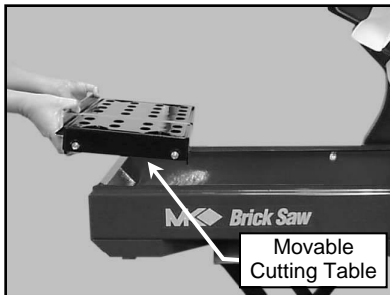


(H)
Remove the Movable Cutting Table

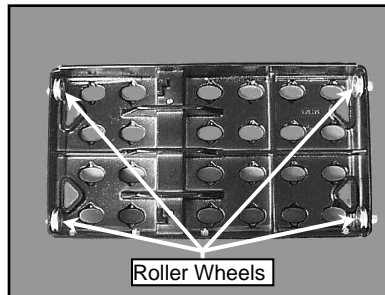
MAINTENANCE AND TROUBLESHOOTING

7. Protective Wooden Strip Replacement:

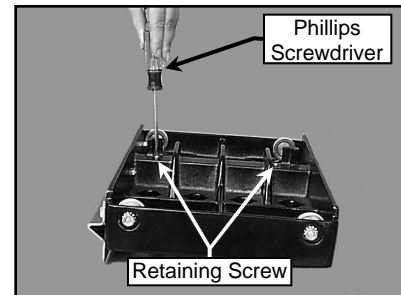
The protective wooden strip is to protect the Movable Cutting Table from damage during operation. Over time, the wooden strip will become grooved from use. A grooved wooden strip will not support masonry during cutting causing the blade to "break through" the piece instead of performing a smooth cut (MK Diamond Part No. – 156427).



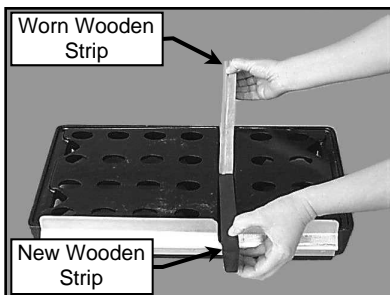
(A)
Remove the Movable Cutting Table



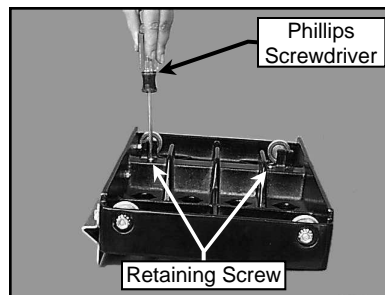
(B)
Place the Movable Cutting Table on a Workbench with the Roller Wheels facing up



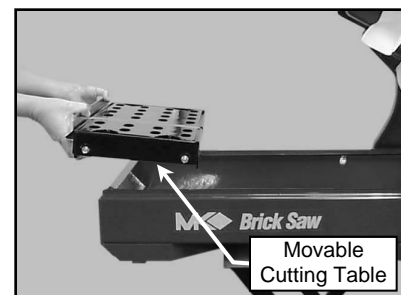
(C)
Remove the two Protective Wooden Strip Retaining Screws using a Phillips Screwdriver



(D)
Replace the worn Protective Wooden Strip with the new Protective Wooden Strip



(E)
Place the Movable Cutting Table on a Workbench with the Roller Wheels facing up and reinstall the Retaining Screws

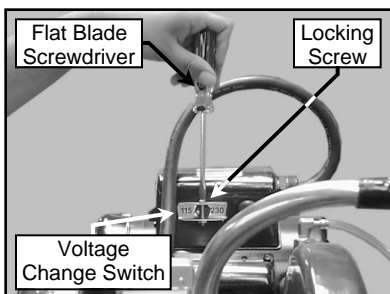


(F)
Remove the Movable Cutting Table

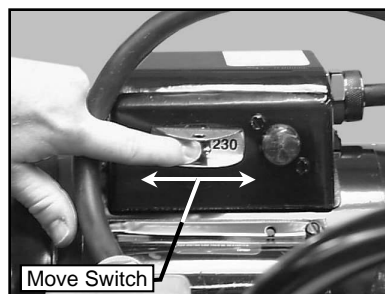
8. Changing Voltage Setting:

Perform the following steps to change the voltage setting between 115v and 230v.

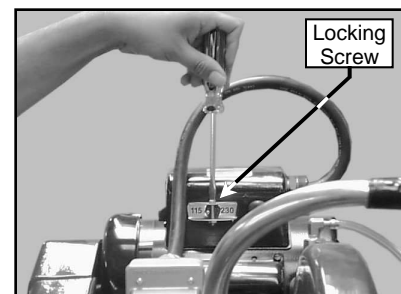
⚠CAUTION The power must be removed from the saw before changing the voltage setting.



(A)
Remove the Voltage Change Switch Locking Screw using a Flat Blade Screwdriver



(B)
Move the Voltage Change Switch to the desired voltage setting



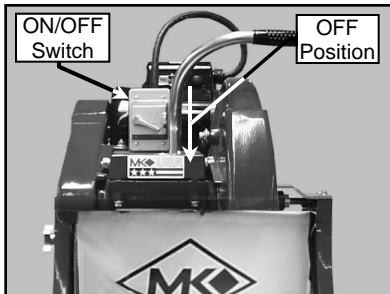
(C)
Reinstall the Locking Screw

MAINTENANCE AND TROUBLESHOOTING

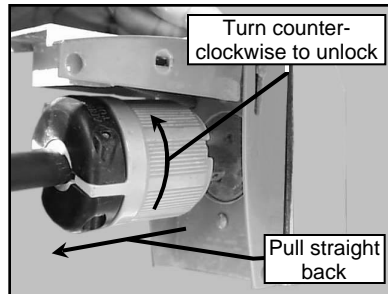
8. V-Belt Inspection, Adjustment and Replacement:

The MK-2000 PRO is designed with dual power transmission V-belts. In order to ensure the MK-2000 PRO operates a peak efficiency, the two V-belts should be inspected monthly, and changed if they show signs of damage and/or excessive wear.

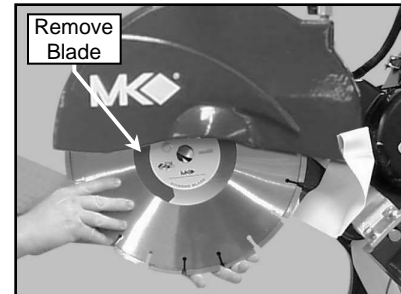
NOTE: 1. When new belts are installed, they should be inspected and re-tensioned after the first forty-eight (48) hours of operation.



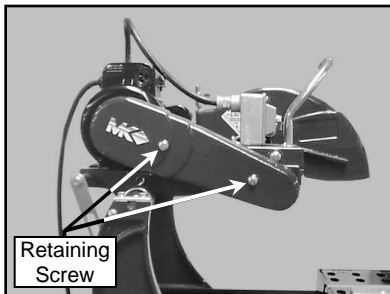
(A)
Ensure the ON/OFF Switch is in the OFF position



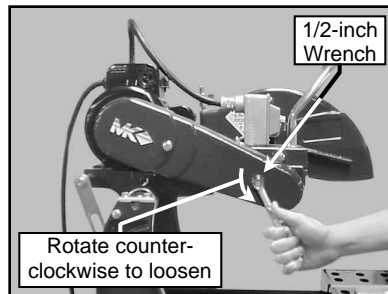
(B)
Unplug the MK-2000 PRO Polarized plug from the power source by turning counter-clockwise and then pulling straight back



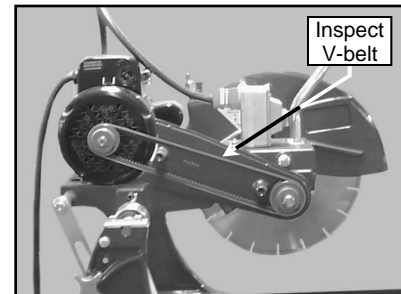
(C)
Remove the Blade (See the Diamond Blade Change Out Section)



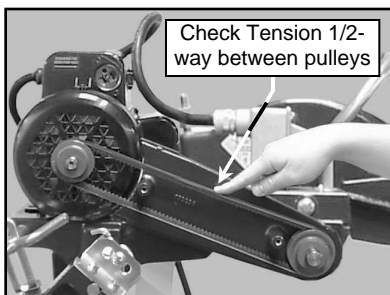
(D)
Locate the two Belt Guard Retaining Screws



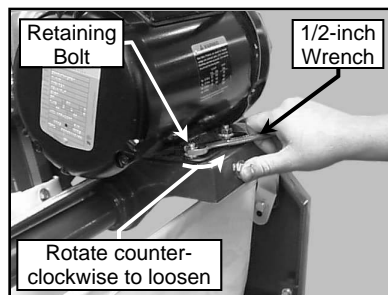
(E)
Remove the Belt Guard Retaining Screws and the Belt Guard using a 1/2-inch wrench



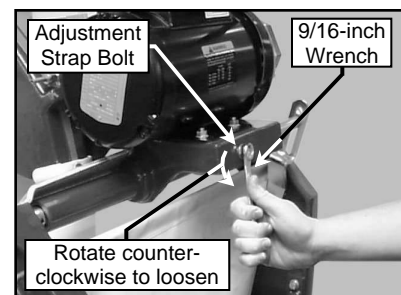
(F)
Inspect the V-belts for cracks, Fraying, separation and wear. Go to step H if belt replacement is required



(G)
Check the V-belts for proper tension, if the tension is correct, go to step R (Proper tension 1/8-inch deflection)

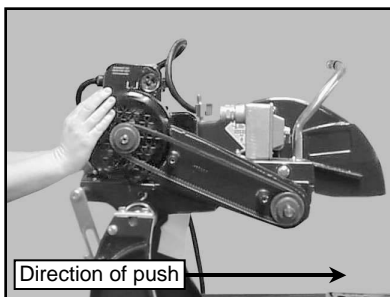


(H)
Loosen the Motor Mounting Bolts using a 1/2-inch wrench; if re-tensioning only, go to step N

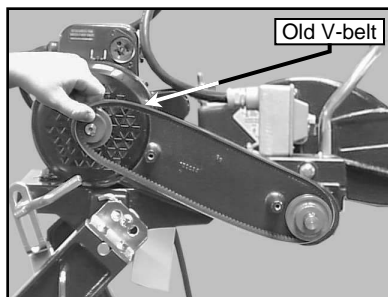


(I)
Loosen the Motor Adjustment Strap using a 9/16-inch wrench

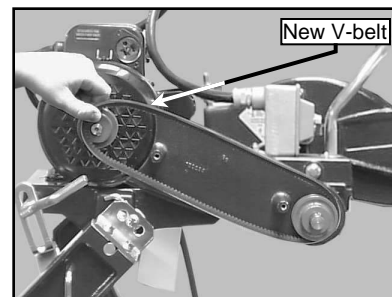
MAINTENANCE AND TROUBLESHOOTING



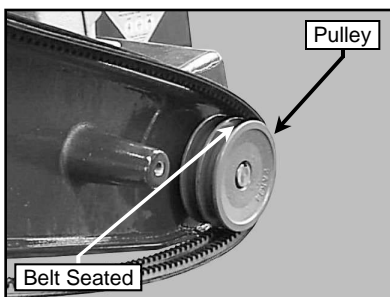
(J)
Push the Motor forward to
loosen the V-belts



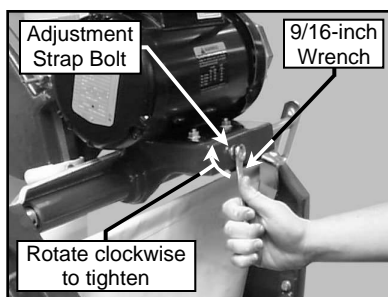
(K)
Remove the old inner and
outer V-belts



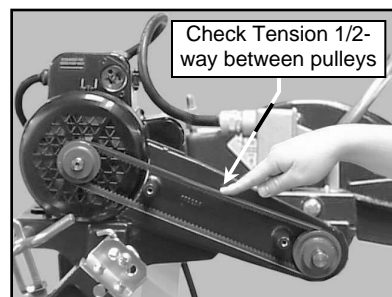
(L)
Install the new V-belts (MK Part
Number – 151723)



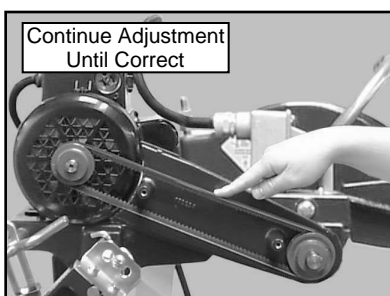
(M)
Verify the V-belts are seated in
the grooves of both pulleys



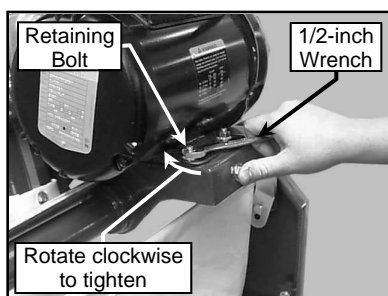
(N)
Tighten the Motor Adjustment
Strap using a 9/16-inch wrench to
remove slack



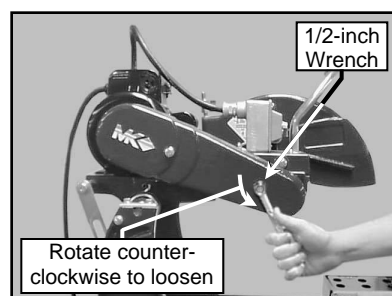
(O)
Check the V-belts for proper
tension, if the tension is
correct, go to step R (Proper
tension 1/8-inch deflection)



(P)
Repeat steps N and O until
proper V-belt tension is achieved



(Q)
Tighten the Motor Mounting
Bolts using a 1/2-inch Wrench

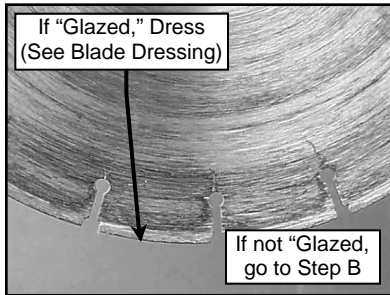


(R)
Install the Belt Guard

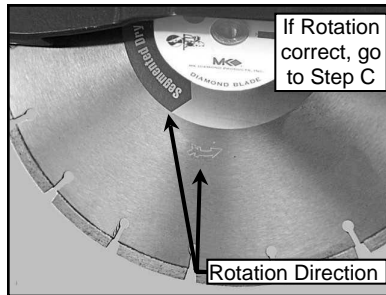
MAINTENANCE AND TROUBLESHOOTING

TROUBLESHOOTING:

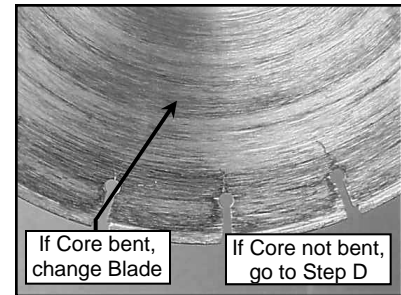
1. Blade Will Not Cut Properly:



(A)
Check the Blade for smoothness or "Glazing" and Dress the Blade if it is "Glazed"



(B)
Check for proper rotation



(C)
Ensure the blade core is not bent

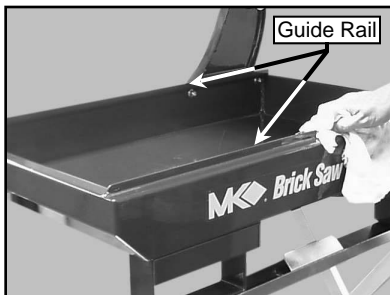


(D)
Verify the Blade is correct for the material being cut

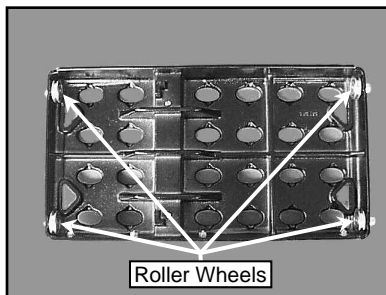
**Return to
MK Diamond
for Repair**

(E)
Return to MK Diamond

2. Movable Cutting Table Does Not Move Correctly:



(A)
Check that the Movable Cutting Table Guide Rails are clean and clean if dirty



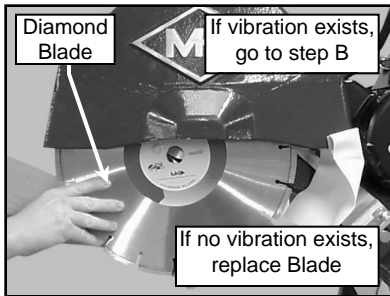
(B)
Ensure the Movable Cutting Table Roller Wheels are clean and in good condition, clean or replace if necessary

**Return to
MK Diamond
for Repair**

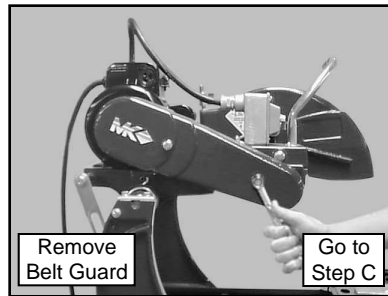
(E)
Return to MK Diamond

MAINTENANCE AND TROUBLESHOOTING

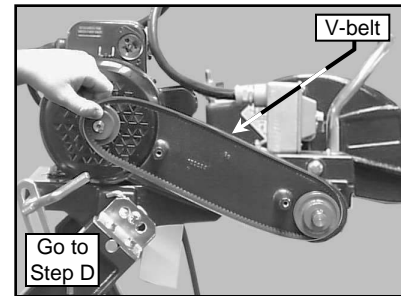
4. Vibration:



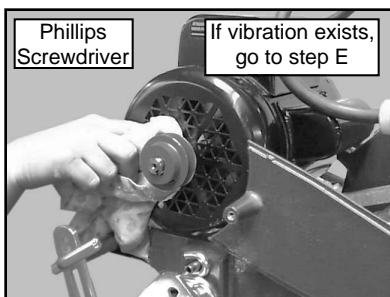
(A)
Remove the Diamond Blade
and recheck vibration



(B)
Remove the Belt Guard



(C)
Remove the V-belts

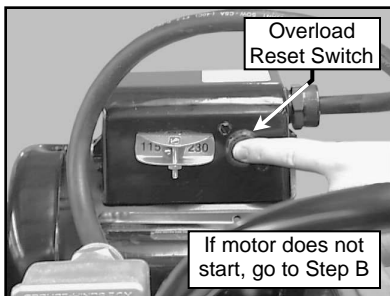


(D)
Clean Motor and recheck
vibration

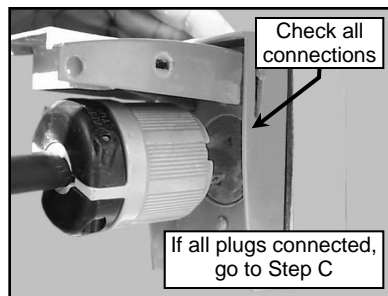
**Return to
MK Diamond
for Repair**

(E)
Return to MK Diamond

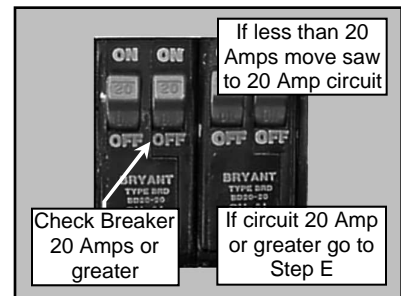
5. Blade Stops Turning:



(A)
Allow motor to cool at least five
minutes and then depress
motor Overload Reset Switch

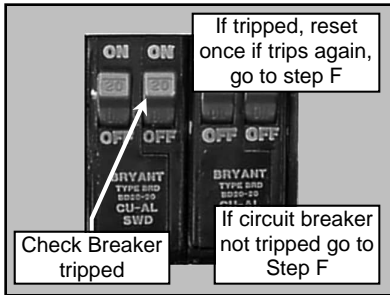


(B)
Verify all power connections
are fully installed



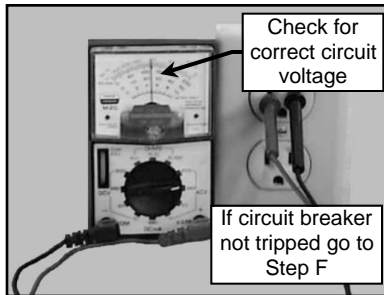
(C)
Verify circuit breaker at least
20 amps – if not, move to 20-
amp circuit

MAINTENANCE AND TROUBLESHOOTING



(E)

Verify Circuit Breaker is not tripped; if tripped, reset the Circuit Breaker once



(F)

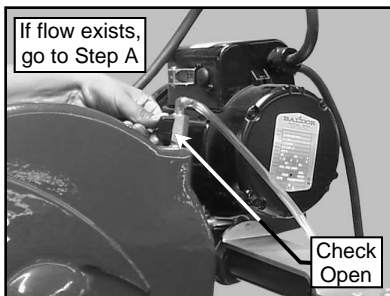
Check power source voltage is 115V (240v if running at 240v) – if not 115v move to another circuit

Return to MK Diamond for Repair

(G)

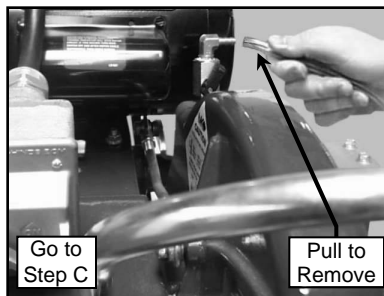
Return to MK Diamond

6. Cooling Flow:



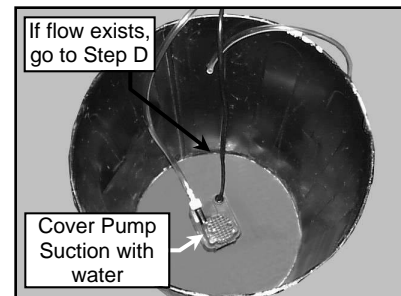
(A)

Check Cooling Flow Adjusting Valve open



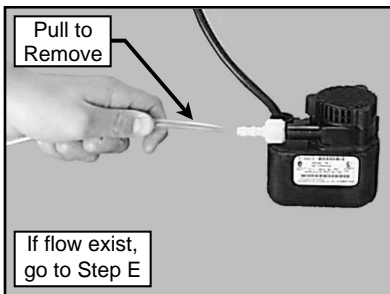
(B)

Remove the Cooling Transfer Tube from the Blade Guard inlet



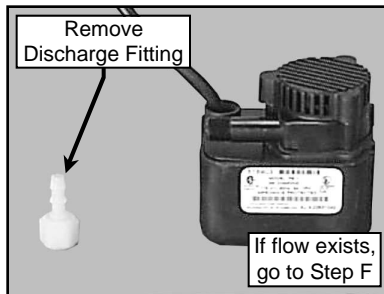
(C)

Place Pump into a bucket of water and check flow



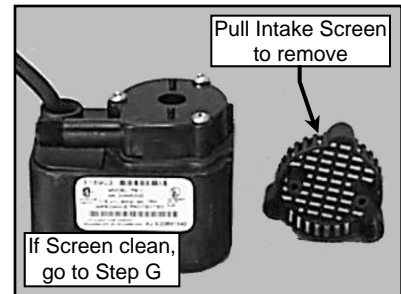
(D)

Remove the Cooling Transfer Tube and check flow



(E)

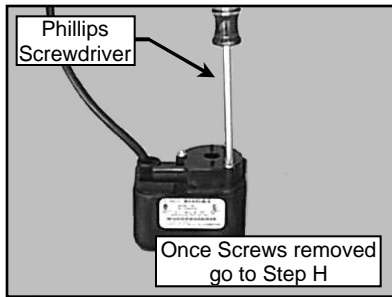
Remove the Pump Discharge Fitting and check



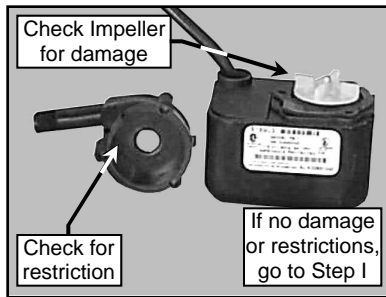
(F)

Remove the Pump Intake Screen and check for debris

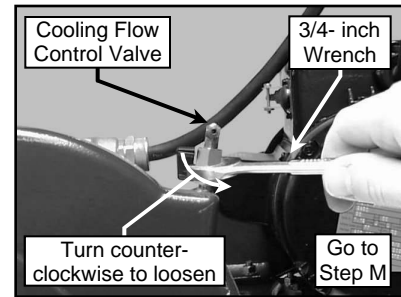
MAINTENANCE AND TROUBLESHOOTING



(G)
Remove the 3 Pump Casing
Retaining Screws

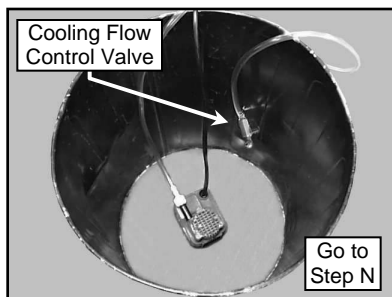


(H)
Remove the Pump Casing and
check for restriction; check
Impeller damage

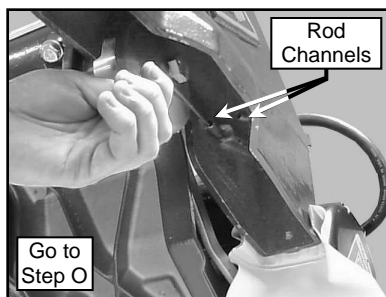


(I)
Using a 9/16-inch wrench,
remove the Flow Control Valve
from the Blade Guard

NOTE: "Rodding" cooling channels is performed by inserting a small wire rod through the cooling inlet on top of the Blade Guard and directing the rod out through each of the cooling flow tubes located on the underside of the Blade Guard. The cooling channels should be "rodded" until all ports are free of foreign debris.



(J)
Attach the Flow Control Valve
to the Intake Fitting and check
flow (See Step C)



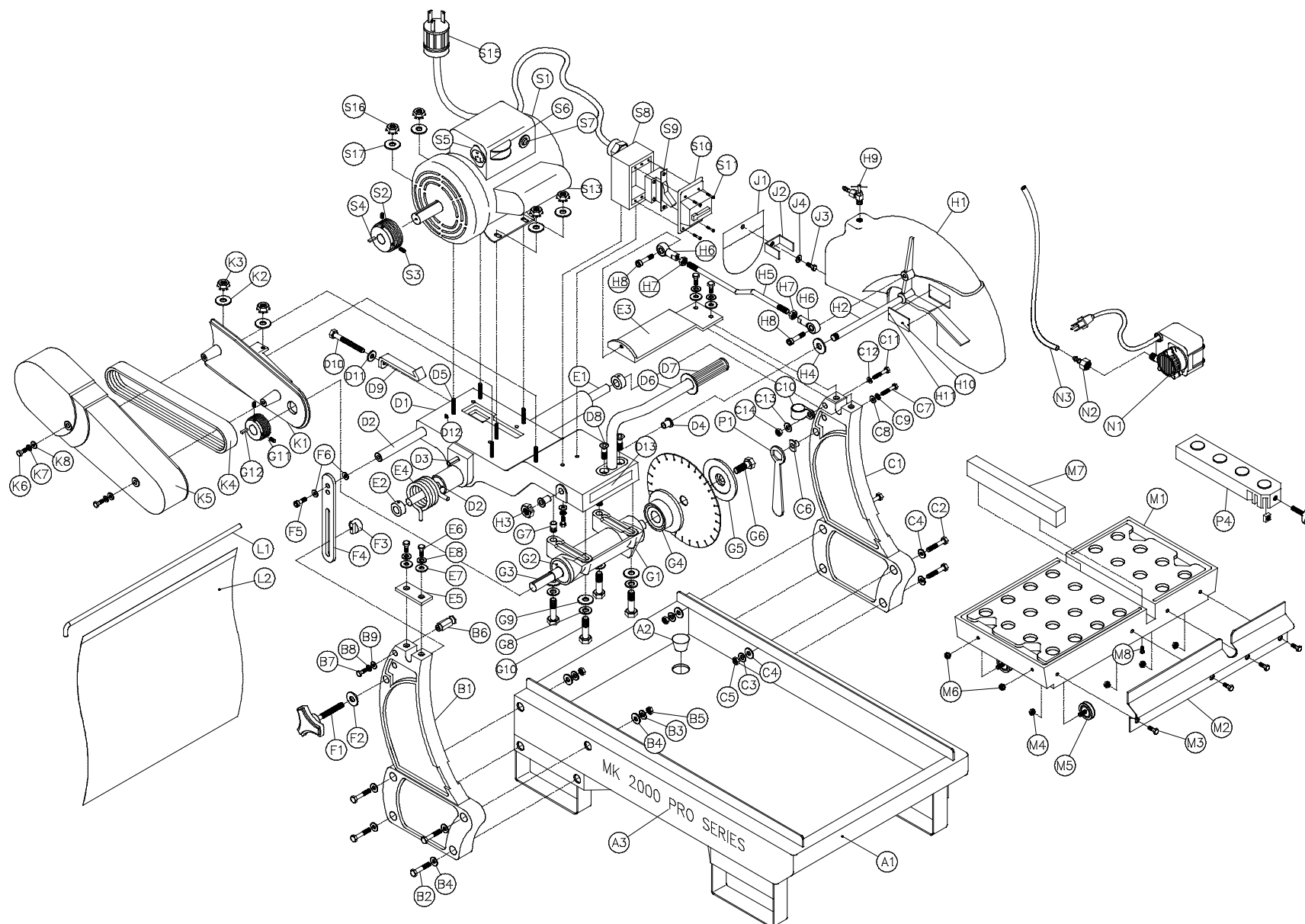
(K)
Rod Cooling Channels and
recheck flow; if after performing
Steps A to N flow still does not
exist, go to Step L

**Return to
MK Diamond
for Repair**

(L)
Return to MK Diamond

EXPLODED VIEW AND PARTS LIST

EXPLODED VIEW:



EXPLODED VIEW AND PARTS LIST

PARTS LIST:

Item	Description	Qty	MK P/N
A	Assembly, Frame, Brick Saw	1	n/a
A1	Frame, Weldment	1	158845
A2	Plug, Rubber Drain	1	153439
A3	Label, MK 2000 Brick Saw	2	155230
B	Assembly, Upright, Left	1	n/a
B1	Post, Left	1	158846
B2	Screw, 5/16-18 x 1 3/4, Hex Head Cap	4	150919
B3	Washer, 5/16 Split Lock	4	151747
B4	Washer, 5/16 SAE Flat	8	151754
B5	Nut 5/16-18 Hex	4	101196
B6	Stud, Spring Retaining	1	231024
B7	Screw, 5/16-18 x 1 1/2, Hex Head Cap	1	152467
B8	Washer, 5/16 Split Lock	1	151747
B9	Washer, 5/16 SAE Flat	1	151754
C	Assembly, Upright, Right		n/a
C1	Post	1	158846
C2	Screw, 5/16-18 x 1 3/4, Hex Head Cap	4	150919
C3	Washer, 5/16 Split Lock	4	151747
C4	Washer, 5/16 SAE Flat	8	151754
C5	Nut 5/16-18 Hex	4	101196
C6	Hanger, Wrench	1	153945
C7	Screw, 3/8-16 x 1 3/4, Hex Head Cap	1	150920
C8	Washer, 3/8 SAE Flat	1	150923
C9	Washer, 3/8 SAE Split Lock	1	150925
C10	Clamp, Cushion Loop 1/2" (elec.)	1	152471
C11	Screw, 1/4-20 x 1 3/4 Hex Head Cap	1	231233
C12	Washer, 1/4 SAE Flat	2	151915
C13	Washer, 1/4 Split Lock	1	152591
C14	Nut 1/4-20 Hex	1	151893
D	Assembly, Cutting Head		n/a
D1	Casting, Cutting Head, Complete	1	150583
D2	Bar, Adjustment	1	150585
D3	Pin, Split Wrist	1	151358
D4	Bushing, Plastic	2	156441
D5	Stud, 5/16-18 x 1 1/2	6	153680
D6	Handle	1	139931
D7	Grip, Handle 7/8 I.D.	1	158608
D8	Screw, 3/8-16 x 3/4, Flat Socket Head Cap Screw	2	151752
D9	Strap, Motor Adjustment	1	150584
D10	Bolt, 3/8-16 x 3 1/2 Hex Head Cap	1	153147
D11	Washer, 3/8 SAE Flat	1	150923
D12	Stud, Pulley Alignment	1	231274
D13	Caution, Owners Manual 4 x 1 1/4	1	155576

EXPLODED VIEW AND PARTS LIST

Item	Description	Qty	MK P/N
E	Assembly, Pivot Shaft	1	assign
E1	Shaft, Pivot	1	154147
E2	Collar, Pivot Shaft	2	140012
E3	Bracket, Stay-Level	1	231234
E4	Spring, Torsion (4 coil)	1	231038
E5	Bracket, Pivot Shaft Retaining	1	231023
E6	Screw, 5/16-18 x 1 Button Head	4	151698
E7	Washer, 5/16 SAE Flat	4	151754
E8	Washer, 5/16 Split Lock	4	151747
F	Assembly, Cutting Head Height Adjustment	1	n/a
F1	Knob, Tri (w/ 3/8-16 x 2 1/2 Stud)	1	231039
F2	Washer, 3/8 SAE Flat	1	150923
F3	T-Nut	1	231040
F4	Bracket, Height Adjustment	1	156839
F5	Screw, 1/2 x 1/2 Socket Hd. Shoulder, (3/8-16 x 1/2 Thread)	1	151753
F6	Washer, 1/2 SAE Flat	2	150923
G	Assembly, Blade Shaft	1	n/a
G1	Blade Shaft-Arbor, Complete	1	153791
G2	Bearing, Blade Shaft	2	154594
G3	Shaft, Arbor	1	154639
G4	Flange, Inner	1	154640
G5	Flange, Outer 14 Inch M-Saw	1	132290
G6	Screw, 1/2-20 x 1 1/4, Hex Head Cap	1	152122
G7	Pin, Arbor Alignment	2	153946
G8	Washer, 5/16 Split Lock	4	151747
G9	Washer, 5/16 SAE Flat	4	151754
G10	Screw, 5/16-18 x 2 1/4	4	153951
G11	Pulley, 2 Groove, 2-1/2 x 5/8	1	133157
G12	Key, 1 1/8 x 3/16	1	150344
H	Assembly, Blade Guard	1	n/a
H1	Blade Guard	1	158886
H2	Stud, Blade Guard Pivot	1	150581
H3	Nut, 1/2-20 Lock	1	153943
H4	Shim, 1/2	1	153952
H5	Rod, Adjustment Blade Guard	1	231052
H6	Ball Joint Rod End, Stamped, 3/8-24	2	156521
H7	Nut, Jam 3/8-24	2	231054
H8	Screw, 3/8 x 1/2 Shoulder, 5/16-18 x 1/2 Thread	2	231246
H9	Valve, Miniature Ball, 1/4 Male / Female	1	231248
H10	Tag, Serial	1	157007
H11	Tack, Metal 1/4 Hd.	2	155659
H12	Label, Warning, Blade Guard Failure	1	155588
J	Assembly, Splash Guard		n/a
J1	Curtain, Blade Guard	1	152417
J2	Bracket, Water Curtain	1	152723
J3	Screw, 1/4-20 x 1/2, Hex Head Cap	1	152608
J4	Washer, 1/4 SAE Flat	1	151915

EXPLODED VIEW AND PARTS LIST

Item	Description	Qty	MK P/N
K	Assembly, Belt Guard	1	n/a
K1	Belt Guard Inner	1	150590
K2	Washer, 3/8 SAE Flat	2	150923
K3	Nut, 5/16-18 Hex (w/ external tooth washer)	2	153942
K4	Belt, V AX-32	2	151723
K5	Belt Guard Outer	1	158867
K6	Screw, 5/16-18 x 1 3/4, Hex Head Cap	2	150919
K7	Washer, 5/16 Lock Split	2	151747
K8	Washer, 5/16 SAE Flat	2	151754
K9	Caution, Guard Removal 3 x 1 1/2	1	155587
L	Assembly, Splash Curtain	1	n/a
L1	Rod, Splash Curtain	1	153956
L2	Curtain, Rear	1	152417
M	Assembly, Table	1	133082
M1	Table	1	153790
M2	Stop-Rule, Table	1	134387
M3	Screw, 1/4-20 x 3/4 Hex Head Cap	4	152504
M4	Nut, 1/4-20, Hex w/ External Tooth Washer	4	153941
M5	Wheel Roller	4	133090
M6	Nut, 5/16-18, Hex w/ External Tooth Washer	4	153942
M7	Wood Strip, Table Insert	1	156427
M8	Screw, Pan HD Phil. #8 x1	2	151047
M9	Sticker, Inspected By: (not shown)	1	n/a
N	Assembly, Pump Electric	1	n/a
N1	Pump, Water G-150A	1	151271
N2	Adapter, Plastic MNPT x 1/4 FNPT	1	151018
N3	Hose, Vinyl 1/4 ID	3 Ft.	132951
N4	Owner's Manual, Water Pump G-150A	1	155745
N5	Carton, Water Pump G-150A	1	154016
N6	Insert, Foam Water Pump G-150A	1	154017
P	Assembly, Accessory Pack	1	n/a
P1	Wrench, Masonry Saw	1	134056
P2	Carton, Accessory (not shown)	1	153575
P3	Insert, Accessory (not shown)	1	153576
P4	Assembly, Rip Guide, Large	1	n/a
	Rip Guide, Large (Comp)	1	132332
	Screw, 5/16-18 x 1 1/2 Thumb	1	150303
	Nut, 5/16-18 Square	1	151156
P5	Warranty Card	1	155037
P6	Sell Sheet, Tile Accessory	1	156915
P7	Owners Manual, MK-2000 Pro Series	1	158753

EXPLODED VIEW AND PARTS LIST

Item	Description	Qty	MK P/N
SB	Assembly, Mtr 110/220v 1 Ph 60 Hz 2 Hp		n/a
SB1	Motor, 115/230v 60 Hz 2 Hp	1	231095
SB2	Pulley, 2 Groove, 2 -1 /2 x 3/4	1	231083
SB3	Screw, 5/16-18 x 1/4, Set	2	231239
SB4	Key, 1-1/8 x 3/16	1	150344
SB5	Receptacle, 20 Amp 115 volt	1	154621
SB6	Switch, Voltage Change	1	150577
SB7	Switch, Thermal Overload TPMISJ24AB	1	153503
SB8	Box, Switch	1	139758
SB9	Switch, On/Off 30 Amps/250 volts	1	139741
SB10	Cover, Switch Box	1	139766
SB11	Screw, 10-32 x 1/4 Slotted Round Head Machine	4	231090
SB12	Screw, 1/4-20 x 3/4 Hex Head	2	152676
SB13	Capacitor, HSG	1	150574
SB14	Capacitor, Oil MK2000 OC3020F12	1	152412
SB15	Plug, Twist Lock 20 Amp125 volt (NEMAL520P)	1	154556
SB16	Nut, 5/16-18 w/ External Tooth Washer	4	153942
SB17	Washer, 5/16 SAE, Flat	4	151754
SB18	Warning, Cord Selection 2 3/4 x 2 1/2	1	155672
SB19	Caution, Ground Fault Interrupter 2 1/8 x 1	1	155678
SB20	Attachment for Water Pump 1 1/2 x 3/4	1	154408
SB21	Motor, Cool Push 1 x 5/8	1	154409
SC	Assembly, Mtr 110/220v 1 Ph 50 Hz 2 Hp		n/a
SC1	Motor, 115/230v 50 Hz 2 Hp	1	231096
SC2	Pulley, 2 Groove, 2 -1 /2 x 3/4	1	231083
SC3	Screw, 5/16-18 x 1/4, Set	2	231239
SC4	Key, 1 - 1/8 x 3/16	1	150344
SC5	Receptacle, 20 Amp 115 volt	1	154621
SC6	Switch, Voltage Change	1	150577
SC7	Switch, Thermal Overload TPMISJ24AB	1	153503
SC8	Box, Switch	1	139758
SC9	Switch, On/Off 30 Amps/250 volts	1	139741
SC10	Cover, Switch Box	1	139766
SC11	Screw, 10-32 x 1/4, Slotted Round Head Machine	4	231090
SC12	Screw, 1/4 - 20 x 3/4 Hex Head	2	152676
SC13	Capacitor, HSG	1	150574
SC14	Capacitor, Oil MK2000 OC3020F12	1	152412
SC15	Plug, Twist Lock 20 Amp125 volt (NEMAL520P)	1	154556
SC16	Nut, 5/16-18 w/ External Tooth Washer	4	153942
SC17	Washer, 5/16 SAE, Flat	4	151754
SC18	Warning, Cord Selection 2 3/4 x 2 1/2	1	155672
SC19	Caution, Ground Fault Interrupter 2 1/8 x 1	1	155678
SC20	Attachment for Water Pump 1 1/2 x 3/4	1	154408
SC21	Motor, Cool Push 1 x 5/8	1	154409

EXPLODED VIEW AND PARTS LIST

Item	Description	Qty	MK P/N
SD	Assembly, Mtr 110/220v 1 Ph 60 Hz 3 hp		n/a
SD1	Motor, 115/230v 60 Hz 3 hp (saw duty)	1	158752
SD2	Pulley, 2 Groove, 2 -1 /2 x 3/4	1	231083
SD3	Screw, 5/16-18 x 1/4, Set	2	231239
SD2	Pulley, 2 Groove, 2 -1 /2 x 3/4	1	231083
SD3	Screw, 5/16-18 x 1/4, Set	2	231239
SD4	Key, 1 - 1/8 x 3/16	1	150344
SD5	Receptacle, 20 Amp 115 volt	1	154621
SD6	Switch, Voltage Change	1	150577
SD7	Switch, Thermal Overload TPMISJ24AB	1	153503
SD8	Box, Switch	1	139758
SD9	Switch, On/Off 30 Amps/250 volts	1	139741
SD10	Cover, Switch Box	1	139766
SD11	Screw, 10-32 x 1/4, Slotted Round Head Machine	4	231090
SD12	Screw, 1/4 - 20 x 3/4 Hex Head	2	152676
SD13	Capacitor, HSG	1	150574
SD14	Capacitor, Oil MK2000 OC3020F12	1	152412
SD15	Plug, Twist Lock 20 Amp125 volt (NEMAL520P)	1	154556
SD16	Nut, 5/16-18 w/ External Tooth Washer	4	153942
SD17	Washer, 5/16 SAE, Flat	4	151754
SD18	Warning, Cord Selection 2 3/4 x 2 1/2	1	155672
SD19	Caution, Ground Fault Interrupter 2 1/8 x 1	1	155678
SD20	Attachment for Water Pump 1 1/2 x 3/4	1	154408
SD21	Motor, Cool Push 1 x 5/8	1	154409

THEORY

THEORY OF DIAMOND BLADES:

Diamond blades do not really cut; they grind the material through friction. Diamond crystals, often visible at the leading edge and sides of the rim/segment, remove material by scratching out particles of hard, dense materials, or by knocking out larger particles of loosely bonded abrasive material. This process eventually cracks or fractures the diamond particle, breaking it down into smaller pieces. As a result, a diamond blade for cutting soft, abrasive material must have a hard metal matrix composition to resist this erosion long enough for the exposed diamonds to be properly utilized. Conversely, a blade for cutting a hard, non-abrasive material must have a soft bond to ensure that it will erode and expose the diamonds embedded in the matrix. These simple principles are the foundation of “controlled bond erosion”.



Types of Cutting:

There are two basic types of cutting-Dry or Wet. The choice of which type of blade to use depends on:

- The requirements of the job
- The machine/tool utilizing the diamond blade
- The preference of the operator

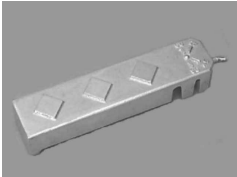

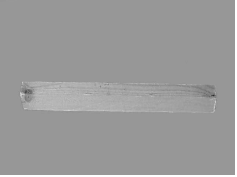

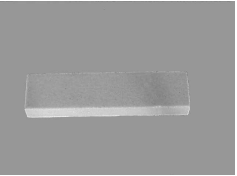

In the case of DRY cutting, the overwhelming popularity and quantity of hand-held saws and the flexible nature of MK Diamond blades to professionally handle most ceramic, masonry, stone and concrete materials, make the DRY cutting blade a very attractive tool. When using a DRY blade, the user must be aware of distinct operating practices to ensure optimum performance. DRY cutting blades require sufficient airflow about the blade to prevent overheating of the steel core. This is best accomplished by shallow, intermittent cuts of the material with periods of “free-spinning” (for several seconds) between each cut, to maximize the cooling process.

For WET cutting applications, MK has the exact blade to compliment both the material to be cut and the wet cutting machine to be used. During cutting operations, liberal amounts of water act as a coolant to support the cutting effectiveness and longevity of the WET blade. Additionally, using water adds to the overall safety of cutting operations by keeping the dust signature down.

Know All You Can About the Material You Wish to Cut

ACCESSORIES

ACCESSORIES:

ITEM	NUMBER	DESCRIPTION	
1.	132332	Adjustable Cutting Guide	
2.	133090	Roller Wheel	
3.	156427	Protective Wooden Strip	
4.	151723	V Belt	
5.	152792	Dressing Stick	
6.	153439	Rubber Drain Plug	

ORDERING and RETURN INFORMATION

ORDERING INFORMATION:

You may order MK Diamond products through your local MK Diamond distributor or, you may order direct from MK Diamond.

NOTE: There is a \$25.00 minimum order when ordering direct from MK Diamond. All purchases must be made using VISA or MasterCard.

When ordering direct from MK Diamond, please have the following information ready before calling:

- The Model Number of the saw
- The Serial Number of the saw
- Where the saw was purchased and when
- The Part Number for the part(s) being ordered
- The Part Description for the part(s) being ordered

All parts may be ordered by calling toll free to – **800 421-5830** or **310 539-5221** and asking for Customer Service. For technical questions, call – **800 474-5594**.

RETURN MATERIALS POLICY:

To expedite the service relative to the return of a product purchased through MK Diamond, please observe the following:

NOTE: When returning all items, they must have been purchased within the previous twelve (12) months.

- Have the Model Number of the saw
- Have the Serial Number of the saw
- Have the location of where the saw was purchased
- Have the date when the saw was purchased
- Contact Customer Service for approval to return the item(s)
- Obtain a Returned Goods Number (RGA) authorizing the return
- Follow the packaging instructions in the following section
- Ensure your item(s) are prepaid to the destination

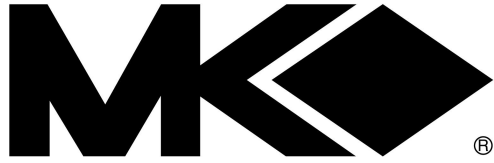
For returned items, call toll free to – **800 421-5830** or **310 539-5221** and ask for Customer Service. For technical questions, call – **800 474-5594** or **310 257-2845**.

PACKAGING INSTRUCTIONS:

- Remove the Blade guard and Support Angle Assembly
- Dry the saw before shipping
- When packing, include the following: MK-2000 PRO, Diamond Blade, Blade guard and Support Angle Assembly and Adjustable Cutting Guide (Other Accessories are not required)
- Package the unit in its original container or one of comparable size (do not ship the unit partially exposed)
- Ensure all parts are secured in the packaging to prevent moving

AUTHORIZED SERVICE CENTERS:

For quicker repair time, you may contact MK Diamond Customer Service, toll free, at – **800 421-5830** or **310 539-5221** for the Authorized Service Center closest too you. For technical questions, call – **800 474-5594**.



MK-2000 Pro SERIES

BRICK SAW OWNER'S MANUAL & OPERATING INSTRUCTIONS

CALIFORNIA PROPOSITION 65 MESSAGE:

⚠ WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead, from lead-based paints
- Crystalline silica, from bricks and cement and other masonry products and
- Arsenic and chromium, from chemically treated lumber

Your risk from these exposures varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

MK DIAMOND PRODUCTS, INC
1315 STORM PARKWAY, TORRANCE, CA 90509-2803
310 539 5158